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(54) Title: BIALLELIC MARKERS		

(57) Abstract

The invention provides nucleic acid segments of the human genome including polymorphic sites. Allele-specific primers and probes hybridizing to regions flanking these sites are also provided. The nucleic acids, primers and probes are used in applications such as forensics, paternity testing, medicine and genetic analysis.

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BIALLELIC MARKERS

RELATED APPLICATIONS

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This application claims priority to U.S. provisional application Serial No. 60/030,455, filed November 6, 1996, the entire teachings of which are incorporated herein by reference.

BACKGROUND OF THE INVENTION

The genomes of all organisms undergo spontaneous mutation in the course of their continuing evolution, generating variant forms of progenitor sequences (Gusella, Ann. Rev. Biochem. 55, 831-854 (1986)). The variant form may confer an evolutionary advantage or disadvantage relative to a progenitor form or may be neutral. In some instances, a variant form confers a lethal disadvantage and is not transmitted to subsequent generations of the organism. In other instances, a variant form confers an evolutionary advantage to the species and is eventually incorporated into the DNA of many or most members of the species and effectively becomes the progenitor form. In many instances, both progenitor and variant form(s) survive and co-exist in a species population. The coexistence of multiple forms of a sequence gives rise to polymorphisms.

Several different types of polymorphism have been reported. A restriction fragment length polymorphism (RFLP) Is a variation in DNA sequence that alters the length of a restriction fragment (Botstein et al., Am. J. Hum. Genet. 32, 314-331 (1980)). The restriction fragment length polymorphism may create or delete a restriction site, thus changing the length of the restriction fragment.

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RFLPs have been widely used in human and animal genetic analyses (see WO 90/13668; W090/11369; Donis-Keller, Cell 51, 319-337 (1987); Lander et al., Genetics 121, 85-99 (1989)). When a heritable trait can be linked to a particular RFLP, the presence of the RFLP in an individual can be used to predict the likelihood that the animal will also exhibit the trait.

Other polymorphisms take the form of short tandem repeats (STRs) that include tandem di-, tri- and tetranucleotide repeated motifs. These tandem repeats are also referred to as variable number tandem repeat (VNTR) polymorphisms. VNTRs have been used in identity and paternity analysis (US 5,075,217; Armour et al., FEBS Lett. 307, 113-115 (1992); Horn et al., WO 91/14003; Jeffreys, EP 370,719), and in a large number of genetic mapping studies.

Other polymorphisms take the form of single nucleotide variations between individuals of the same species. Such polymorphisms are far more frequent than RFLPs, STRs and VNTRs. Some single nucleotide polymorphisms occur in protein-coding sequences, in which case, one of the polymorphic forms may give rise to the expression of a defective or other variant protein and, potentially, a genetic disease. Examples of genes, in which polymorphisms within coding sequences give rise to genetic disease include β-globin (sickle cell anemia) and CFTR (cystic fibrosis). Other single nucleotide polymorphisms occur in noncoding regions. Some of these polymorphisms may also result in defective protein expression (e.g., as a result of defective splicing). Other single nucleotide

Single nucleotide polymorphisms can be used in the same manner as RFLPs and VNTRs, but offer several advantages. Single nucleotide polymorphisms occur with greater

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frequency and are spaced more uniformly throughout the genome than other forms of polymorphism. The greater frequency and uniformity of single nucleotide polymorphisms means that there is a greater probability that such a polymorphism will be found in close proximity to a genetic locus of interest than would be the case for other polymorphisms. The different forms of characterized single nucleotide polymorphisms are often easier to distinguish than other types of polymorphism (e.g., by use of assays employing allele-specific hybridization probes or primers).

Only a small percentage of the total repository of polymorphisms in humans and other organisms has been identified. The limited number of polymorphisms identified to date is due to the large amount of work required for their detection by conventional methods. For example, a conventional approach to identifying polymorphisms might be to sequence the same stretch of DNA in a population of individuals by dideoxy sequencing. In this type of approach, the amount of work increases in proportion to both the length of sequence and the number of individuals in a population and becomes impractical for large stretches of DNA or large numbers of persons.

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SUMMARY OF THE INVENTION

The invention provides nucleic acid sequences comprising nucleic acid segments of from about 10 to about 200 bases as shown in the Table, column 7, including a polymorphic site. Complements of these segments are also included. The segments can be DNA or RNA, and can be double- or single-stranded. Segments can be, for example, 10-20, 10-50 or 10-100 bases long. Preferred segments include a biallelic polymorphic site. The base occupying the polymorphic site in the segments can be the reference (Table, column 3) or an alternative base (Table, column 4).

The invention further provides allele-specific oligonucleotides that hybridize to a segment of a fragment shown in the Table, column 7, or its complement. These oligonucleotides can be probes or primers. Also provided are isolated nucleic acids comprising a sequence shown in the Table, column 7, or the complement thereto, in which the polymorphic site within the sequence is occupied by a base other than the reference base shown in the Table, column 3.

The invention further provides a method of analyzing a nucleic acid from an individual. The method determines which base is present at any one of the polymorphic sites shown in the Table. Optionally, a set of bases occupying a set of the polymorphic sites shown in the Table is determined. This type of analysis can be performed on a number of individuals, who are tested for the presence of a disease phenotype. The presence or absence of disease phenotype is then correlated with a base or set of bases present at the polymorphic sites in the individuals tested.

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DETAILED DESCRIPTION OF THE INVENTION DEFINITIONS

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An oligonucleotide can be DNA or RNA, and single- or double-stranded. Oligonucleotides can be naturally 5 occurring or synthetic, but are typically prepared by synthetic means. The oligonucleotides of the present invention can comprise all of an oligonucleotide sequence presented in column 7 of the Table or a segment of such an oligonucleotide which includes a polymorphic site. 10 Oligonucleotides can be all of a nucleic acid segment as represented in column 7 of the Table; a nucleic acid sequence which comprises a nucleic acid segment represented in column 7 of the Table and additional nucleic acids (present at either or both ends of a nucleic acid segment 15 of column 7); or a portion (fragment) of a nucleic acid segment represented in column 7 of the Table which includes a polymorphic site. Preferred oligonucleotides of the invention include segments of DNA, or their complements, which include any one of the polymorphic sites shown in the Table. The segments can be between 5 and 250 bases, and, in specific embodiments, are between 5-10, 5-20, 10-20, 10-50, 20-50 or 10-100 bases. The polymorphic site can occur within any position of the segment. The segments can be from any of the allelic forms of DNA shown in the Table.

Hybridization probes are oligonucleotides which bind in a base-specific manner to a complementary strand of nucleic acid. Such probes include peptide nucleic acids, as described in Nielsen et al., Science 254, 1497-1500 (1991).

As used herein, the term primer refers to a single-stranded oligonucleotide which acts as a point of initiation of template-directed DNA synthesis under appropriate conditions (e.g., in the presence of four different nucleoside triphosphates and an agent for

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polymerization, such as, DNA or RNA polymerase or reverse transcriptase) in an appropriate buffer and at a suitable temperature. The appropriate length of a primer depends on the intended use of the primer, but typically ranges from 15 to 30 nucleotides. Short primer molecules generally require cooler temperatures to form sufficiently stable hybrid complexes with the template. A primer need not reflect the exact sequence of the template, but must be sufficiently complementary to hybridize with a template. 10 The term primer site refers to the area of the target DNA to which a primer hybridizes. The term primer pair refers to a set of primers including a 5' (upstream) -primer that hybridizes with the 5' end of the DNA sequence to be amplified and a 3' (downstream) primer that hybridizes with the complement of the 3' end of the sequence to be amplified.

As used herein, linkage describes the tendency of genes, alleles, loci or genetic markers to be inherited together as a result of their location on the same

20 chromosome. It can be measured by percent recombination between the two genes, alleles, loci or genetic markers.

As used herein, polymorphism refers to the occurrence of two or more genetically determined alternative sequences or alleles in a population. A polymorphic marker or site is the locus at which divergence occurs. Preferred markers have at least two alleles, each occurring at frequency of greater than 1%, and more preferably greater than 10% or 20% of a selected population. A polymorphic locus may be as small as one base pair. Polymorphic markers include restriction fragment length polymorphisms, variable number of tandem repeats (VNTR's), hypervariable regions, minisatellites, dinucleotide repeats, trinucleotide repeats, tetranucleotide repeats, simple sequence repeats,

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and insertion elements such as Alu. The first identified allelic form is arbitrarily designated as the reference form and other allelic forms are designated as alternative or variant alleles. The allelic form occurring most frequently in a selected population is sometimes referred to as the wildtype form. Diploid organisms may be homozygous or heterozygous for allelic forms. A diallelic or biallelic polymorphism has two forms. A triallelic polymorphism has three forms.

A single nucleotide polymorphism occurs at a polymorphic site occupied by a single nucleotide, which is the site of variation between allelic sequences. ~The site is usually preceded by and followed by highly conserved sequences of the allele (e.g., sequences that vary in less than 1/100 or 1/1000 members of the populations).

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A single nucleotide polymorphism usually arises due to substitution of one nucleotide for another at the polymorphic site. A transition is the replacement of one purine by another purine or one pyrimidine by another pyrimidine. A transversion is the replacement of a purine by a pyrimidine or vice versa. Single nucleotide polymorphisms can also arise from a deletion of a nucleotide or an insertion of a nucleotide relative to a reference allele. Typically the polymorphic site is occupied by a base other than the reference base. For example, where the reference allele contains the base "T" at the polymorphic site, the altered allele can contain a "C", "G" or "A" at the polymorphic site.

Hybridizations are usually performed under stringent conditions, for example, at a salt concentration of no more than 1 M and a temperature of at least 25°C. For example, conditions of 5X SSPE (750 mM NaCl, 50 mM NaPhosphate, 5 mM EDTA, pH 7.4) and a temperature of 25-30°C, or equivalent

conditions, are suitable for allele-specific probe hybridizations. Equivalent conditions can be determined by varying one or more of the parameters given as an example, as known in the art, while maintaining a similar degree of identity or similarity between the target nucleotide sequence and the primer or probe used.

The term "isolated" is used herein to indicate that the material in question exists in a physical milieu distinct from that in which it occurs in nature. For example, an isolated nucleic acid of the invention may be substantially isolated with respect to the complex cellular milieu in which it naturally occurs. In some instances, the isolated material will form part of a composition (for example, a crude extract containing other substances), buffer system or reagent mix. In other circumstance, the material may be purified to essential homogeneity, for example as determined by PAGE or column chromatography such as HPLC. Preferably, an isolated nucleic acid comprises at least about 50, 80 or 90 percent (on a molar basis) of all

I. Novel Polymorphisms of the Invention

The novel polymorphisms of the invention are listed in the Table. The first column of the Table lists the names assigned to the fragments in which the polymorphisms occur.

- The fragments are all human genomic fragments. The sequence of one allelic form of each of the fragments (arbitrarily referred to as the prototypical or reference form) has been previously published. These sequences are listed at http://www-genome.wi.mit.edu/ (all STS's
- 30 (sequence tag sites)); http://shgc.stanford.edu (Stanford STS's); and http://www.tigr.org/ (TIGR STS's). The Web sites also list primers for amplification of the fragments,

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and the genomic location of fragments. Some fragments are expressed sequence tags, and some are random genomic fragments. All information in the websites concerning the fragments listed in the Table is incorporated by reference in its entirety for all purposes.

The second column lists the position in the fragment in which a polymorphic site has been found. Positions are numbered consecutively with the first base of the fragment sequence as listed in one of the above databases being 10 assigned the number one. The third column lists the base occupying the polymorphic site in the sequence in the data base. This base is arbitrarily designated the reference or prototypical form, but it is not necessarily the most frequently occurring form. The fourth column in the Table 15 lists the alternative base(s) at the polymorphic site. fifth column of the Table lists a 5' (upstream or forward) primer that hybridizes with the 5' end of the DNA sequence to be amplified. The sixth column of the Table lists a 3' (downstream or reverse) primer that hybridizes with the 20 complement of the 3' end of the sequence to be amplified. The seventh column of the Table lists a number of bases of sequence on either side of the polymorphic site in each fragment. The indicated sequences can be either DNA or In the latter, the T's shown in the Table are replaced by U's. The base occupying the polymorphic site is indicated in EUPAC-IUB ambiguity code.

II. Analysis of Polymorphisms

A. Preparation of Samples

Polymorphisms are detected in a target nucleic acid from an individual being analyzed. For assay of genomic DNA, virtually any biological sample (other than pure red blood cells) is suitable. For example, convenient tissue samples include whole blood, semen, saliva, tears, urine, fecal material, sweat, buccal, skin and hair. For assay of cDNA or mRNA, the tissue sample must be obtained from an organ in which the target nucleic acid is expressed. For example, if the target nucleic acid is a cytochrome P450, the liver is a suitable source.

Many of the methods described below require
amplification of DNA from target samples. This can be
accomplished by e.g., PCR. See generally PCR Technology:

10 Principles and Applications for DNA Amplification (ed. H.A.
Erlich, Freeman Press, NY, NY, 1992); PCR Protocols: A
Guide to Methods and Applications (eds. Innis, et-al.,
Academic Press, San Diego, CA, 1990); Mattila et al.,
Nucleic Acids Res. 19, 4967 (1991); Eckert et al., PCR

15 Methods and Applications 1, 17 (1991); PCR (eds. McPherson
et al., IRL Press, Oxford); and U.S. Patent 4,683,202.

Other suitable amplification methods include the ligase chain reaction (LCR) (see Wu and Wallace, *Genomics* 4, 560 (1989), Landegren et al., *Science* 241, 1077 (1988),

- transcription amplification (Kwoh et al., Proc. Natl. Acad. Sci. USA 86, 1173 (1989)), and self-sustained sequence replication (Guatelli et al., Proc. Nat. Acad. Sci. USA, 87, 1874 (1990)) and nucleic acid based sequence amplification (NASBA). The latter two amplification methods involve isothermal reactions based on isothermal transcription, which produce both single stranded RNA (ssRNA) and double stranded DNA (dsDNA) as the amplification products in a ratio of about 30 or 100 to 1, respectively.
- B. Detection of Polymorphisms in Target DNA
 There are two distinct types of analysis of target DNA
 for detecting polymorphisms. The first type of analysis,

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sometimes referred to as de novo characterization, is carried out to identify polymorphic sites not previously characterized (i.e., to identify new polymorphisms). analysis compares target sequences in different individuals 5 to identify points of variation, i.e., polymorphic sites. By analyzing groups of individuals representing the greatest ethnic diversity among humans and greatest breed and species variety in plants and animals, patterns characteristic of the most common alleles/haplotypes of the 10 locus can be identified, and the frequencies of such alleles/haplotypes in the population can be determined. Additional allelic frequencies can be determined for subpopulations characterized by criteria such as geography, race, or gender. The de novo identification of polymorphisms of the invention is described in the Examples The second type of analysis determines which form(s) of a characterized (known) polymorphism are present in individuals under test. There are a variety of suitable procedures, which are discussed in turn.

20 1. Allele-Specific Probes

The design and use of allele-specific probes for analyzing polymorphisms is described by e.g., Saiki et al., Nature 324, 163-166 (1986); Dattagupta, EP 235,726, Saiki, WO 89/11548. Allele-specific probes can be designed that hybridize to a segment of target DNA from one individual but do not hybridize to the corresponding segment from another individual due to the presence of different polymorphic forms in the respective segments from the two individuals. Hybridization conditions should be sufficiently stringent that there is a significant difference in hybridization intensity between alleles, and preferably an essentially binary response, whereby a probe

hybridizes to only one of the alleles. Some probes are designed to hybridize to a segment of target DNA such that the polymorphic site aligns with a central position (e.g., in a 15-mer at the 7 position; in a 16-mer, at either the 8 5 or 9 position) of the probe. This design of probe achieves good discrimination in hybridization between different allelic forms.

Allele-specific probes are often used in pairs, one member of a pair showing a perfect match to a reference 10 form of a target sequence and the other member showing a perfect match to a variant form. Several pairs of probes can then be immobilized on the same support for simultaneous analysis of multiple polymorphisms within the same target sequence.

Tiling Arrays

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The polymorphisms can also be identified by hybridization to nucleic acid arrays, some examples of which are described in WO 95/11995. One form of such arrays is described in the Examples section in connection 20 with de novo identification of polymorphisms. array or a different array can be used for analysis of characterized polymorphisms. WO 95/11995 also describes subarrays that are optimized for detection of a variant form of a precharacterized polymorphism. Such a subarray contains probes designed to be complementary to a second reference sequence, which is an allelic variant of the first reference sequence. The second group of probes is designed by the same principles as described in the Examples, except that the probes exhibit complementarity to the second reference sequence. The inclusion of a second group (or further groups) can be particularly useful for analyzing short subsequences of the primary reference

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sequence in which multiple mutations are expected to occur within a short distance commensurate with the length of the probes (e.g., two or more mutations within 9 to 21 bases).

3. Allele-Specific Primers

An allele-specific primer hybridizes to a site on target DNA overlapping a polymorphism and only primes amplification of an allelic form to which the primer exhibits perfect complementarity. See Gibbs, Nucleic Acid Res. 17, 2427-2448 (1989). This primer is used in 10 conjunction with a second primer which hybridizes at a distal site. Amplification proceeds from the two-primers, resulting in a detectable product which indicates the particular allelic form is present. A control is usually performed with a second pair of primers, one of which shows 15 a single base mismatch at the polymorphic site and the other of which exhibits perfect complementarity to a distal site. The single-base mismatch prevents amplification and no detectable product is formed. The method works best when the mismatch is included in the 3'-most position of the oligonucleotide aligned with the polymorphism because this position is most destabilizing to elongation from the primer (see, e.g., WO 93/22456).

4. Direct-Sequencing

The direct analysis of the sequence of polymorphisms of
the present invention can be accomplished using either the
dideoxy chain termination method or the Maxam Gilbert
method (see Sambrook et al., Molecular Cloning, A
Laboratory Manual (2nd Ed., CSHP, New York 1989); Zyskind
et al., Recombinant DNA Laboratory Manual, (Acad. Press,
1988)).

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- Amplification products generated using the polymerase chain reaction can be analyzed by the use of denaturing gradient gel electrophoresis. Different alleles can be identified based on the different sequence-dependent melting properties and electrophoretic migration of DNA in solution. Erlich, ed., PCR Technology, Principles and Applications for DNA Amplification, (W.H. Freeman and Co, New York, 1992), Chapter 7.
- 6. Single-Strand Conformation Polymorphism Analysis 10 Alleles of target sequences can be differentiated using single-strand conformation polymorphism analysis, which identifies base differences by alteration in electrophoretic migration of single stranded PCR products, 15 as described in Orita et al., Proc. Nat. Acad. Sci. 86, 2766-2770 (1989). Amplified PCR products can be generated as described above, and heated or otherwise denatured, to form single stranded amplification products. Singlestranded nucleic acids may refold or form secondary 20 structures which are partially dependent on the base sequence. The different electrophoretic mobilities of single-stranded amplification products can be related to base-sequence differences between alleles of target sequences.

25 III. Methods of Use

After determining polymorphic form(s) present in an individual at one or more polymorphic sites, this information can be used in a number of methods.

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A. Forensics

Determination of which polymorphic forms occupy a set of polymorphic sites in an individual identifies a set of polymorphic forms that distinguishes the individual. 5 generally National Research Council, The Evaluation of Forensic DNA Evidence (Eds. Pollard et al., National Academy Press, DC, 1996). The more sites that are analyzed, the lower the probability that the set of polymorphic forms in one individual is the same as that in 10 an unrelated individual. Preferably, if multiple sites are analyzed, the sites are unlinked. Thus, polymorphisms of the invention are often used in conjunction with polymorphisms in distal genes. Preferred polymorphisms for use in forensics are biallelic because the population 15 frequencies of two polymorphic forms can usually be determined with greater accuracy than those of multiple polymorphic forms at multi-allelic loci.

The capacity to identify a distinguishing or unique set of forensic markers in an individual is useful for forensic 20 analysis. For example, one can determine whether a blood sample from a suspect matches a blood or other tissue sample from a crime scene by determining whether the set of polymorphic forms occupying selected polymorphic sites is the same in the suspect and the sample. If the set of polymorphic markers does not match between a suspect and a sample, it can be concluded (barring experimental error) that the suspect was not the source of the sample. If the set of markers does match, one can conclude that the DNA from the suspect is consistent with that found at the crime scene. If frequencies of the polymorphic forms at the loci tested have been determined (e.g., by analysis of a suitable population of individuals), one can perform a statistical analysis to determine the probability that a

match of suspect and crime scene sample would occur by chance.

p(ID) is the probability that two random individuals have the same polymorphic or allelic form at a given 5 polymorphic site. In biallelic loci, four genotypes are possible: AA, AB, BA, and BB. If alleles A and B occur in a haploid genome of the organism with frequencies x and y, the probability of each genotype in a diploid organism is (see WO 95/12607):

10 Homozygote: $p(AA) = x^2$ Homozygote: $p(BB) = y^2 = (1-x)^2$ Single Heterozygote: p(AB) = p(BA) = xy = x(1-x)Both Heterozygotes: p(AB+BA) = 2xy = 2x(1-x)

The probability of identity at one locus (i.e, the probability that two individuals, picked at random from a 15 population will have identical polymorphic forms at a given locus) is given by the equation: $p(ID) = (x^2)^2 + (2xy)^2 + (y^2)^2$.

These calculations can be extended for any number of polymorphic forms at a given locus. For example, the 20 probability of identity p(ID) for a 3-allele system where the alleles have the frequencies in the population of x, y and z, respectively, is equal to the sum of the squares of the genotype frequencies:

 $p(ID) = x^4 + (2xy)^2 + (2yz)^2 + (2xz)^2 + z^4 + y^4$ 25 In a locus of n alleles, the appropriate binomial

expansion is used to calculate p(ID) and p(exc).

The cumulative probability of identity (cum p(ID)) for each of multiple unlinked loci is determined by multiplying the probabilities provided by each locus. 30

cum p(ID) = p(ID1)p(ID2)p(ID3)....p(IDn)

The cumulative probability of non-identity for n loci (i.e. the probability that two random individuals will be different at 1 or more loci) is given by the equation:

cum p(nonID) = 1-cum p(ID).

If several polymorphic loci are tested, the cumulative probability of non-identity for random individuals becomes very high (e.g., one billion to one). Such probabilities can be taken into account together with other evidence in determining the guilt or innocence of the suspect.

B. Paternity Testing

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The object of paternity testing is usually to determine whether a male is the father of a child. In most cases, the mother of the child is known and thus, the mother's contribution to the child's genotype can be traced.

Paternity testing investigates whether the part of the child's genotype not attributable to the mother is consistent with that of the putative father. Paternity testing can be performed by analyzing sets of polymorphisms in the putative father and the child.

If the set of polymorphisms in the child attributable to the father does not match the set of polymorphisms of the putative father, it can be concluded, barring experimental error, that the putative father is not the real father. If the set of polymorphisms in the child attributable to the father does match the set of polymorphisms of the putative father, a statistical calculation can be performed to determine the probability of coincidental match.

The probability of parentage exclusion (representing the probability that a random male will have a polymorphic form at a given polymorphic site that makes him

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incompatible as the father) is given by the equation (see WO 95/12607):

p(exc) = xy(1-xy)

where x and y are the population frequencies of alleles A and B of a biallelic polymorphic site.

(At a triallelic site p(exc) = xy(1-xy) + yz(1-yz) + xz(1-xz) + 3xyz(1-xyz)), where x, y and z and the respective population frequencies of alleles A, B and C).

The probability of non-exclusion is

10 p(non-exc) = 1-p(exc)

The cumulative probability of non-exclusion (representing the value obtained when n loci are used) is thus:

cum p(non-exc) = p(non-exc1)p(non-exc2)p(non-exc3)....
p(non-excn)

The cumulative probability of exclusion for n loci (representing the probability that a random male will be excluded)

cum p(exc) = 1 - cum p(non-exc).

If several polymorphic loci are included in the analysis, the cumulative probability of exclusion of a random male is very high. This probability can be taken into account in assessing the liability of a putative father whose polymorphic marker set matches the child's polymorphic marker set attributable to his/her father.

C. Correlation of Polymorphisms with Phenotypic Traits
The polymorphisms of the invention may contribute to
the phenotype of an organism in different ways. Some
polymorphisms occur within a protein coding sequence and
contribute to phenotype by affecting protein structure.
The effect may be neutral, beneficial or detrimental, or
both beneficial and detrimental, depending on the

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circumstances. For example, a heterozygous sickle cell
mutation confers resistance to malaria, but a homozygous
sickle cell mutation is usually lethal. Other
polymorphisms occur in noncoding regions but may exert
5 phenotypic effects indirectly via influence on replication,
transcription, and translation. A single polymorphism may
affect more than one phenotypic trait. Likewise, a single
phenotypic trait may be affected by polymorphisms in
different genes. Further, some polymorphisms predispose an
10 individual to a distinct mutation that is causally related
to a certain phenotype.

Phenotypic traits include diseases that have known but hitherto unmapped genetic components (e.g., agammaglobulimenia, diabetes insipidus, Lesch-Nyhan syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease, familial hypercholesterolemia, polycystic kidney disease, hereditary spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary hemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos syndrome, osteogenesis imperfecta, and acute intermittent porphyria). Phenotypic traits also include symptoms of, or susceptibility to, multifactorial diseases of which a component is or may be genetic, such as autoimmune diseases, inflammation, cancer, diseases of the nervous system, and infection by pathogenic microorganisms. examples of autoimmune diseases include rheumatoid arthritis, multiple sclerosis, diabetes (insulin-dependent and non-independent), systemic lupus erythematosus and Graves disease. Some examples of cancers include cancers of the bladder, brain, breast, colon, esophagus, kidney, leukemia, liver, lung, oral cavity, ovary, pancreas, prostate, skin, stomach and uterus. Phenotypic traits also include characteristics such as longevity, appearance

(e.g., baldness, obesity), strength, speed, endurance, fertility, and susceptibility or receptivity to particular drugs or therapeutic treatments.

Correlation is performed for a population of 5 individuals who have been tested for the presence or absence of a phenotypic trait of interest and for polymorphic markers sets. To perform such analysis, the presence or absence of a set of polymorphisms (i.e. a polymorphic set) is determined for a set of the individuals, some of whom exhibit a particular trait, and 10 some of which exhibit lack of the trait. The alleles of each polymorphism of the set are then reviewed to-determine whether the presence or absence of a particular allele is associated with the trait of interest. Correlation can be 15 performed by standard statistical methods such as a κ squared test and statistically significant correlations between polymorphic form(s) and phenotypic characteristics are noted. For example, it might be found that the presence of allele A1 at polymorphism A correlates with heart disease. As a further example, it might be found that the combined presence of allele A1 at polymorphism A and allele B1 at polymorphism B correlates with increased milk production of a farm animal.

Such correlations can be exploited in several ways. In
the case of a strong correlation between a set of one or
more polymorphic forms and a disease for which treatment is
available, detection of the polymorphic form set in a human
or animal patient may justify immediate administration of
treatment, or at least the institution of regular
monitoring of the patient. Detection of a polymorphic form
correlated with serious disease in a couple contemplating a
family may also be valuable to the couple in their
reproductive decisions. For example, the female partner

might elect to undergo in vitro fertilization to avoid the possibility of transmitting such a polymorphism from her husband to her offspring. In the case of a weaker, but still statistically significant correlation between a polymorphic set and human disease, immediate therapeutic intervention or monitoring may not be justified.

Nevertheless, the patient can be motivated to begin simple life-style changes (e.g., diet, exercise) that can be accomplished at little cost to the patient but confer potential benefits in reducing the risk of conditions to which the patient may have increased susceptibility by virtue of variant alleles. Identification of a polymorphic set in a patient correlated with enhanced receptiveness to one of several treatment regimes for a disease indicates that this treatment regime should be followed.

For animals and plants, correlations between characteristics and phenotype are useful for breeding for desired characteristics. For example, Beitz et al., US 5,292,639 discuss use of bovine mitochondrial polymorphisms in a breeding program to improve milk production in cows. To evaluate the effect of mtDNA D-loop sequence polymorphism on milk production, each cow was assigned a value of 1 if variant or 0 if wildtype with respect to a prototypical mitochondrial DNA sequence at each of 17 locations considered. Each production trait was analyzed individually with the following animal model:

 $Y_{ijkpn} = \mu + YS_i + P_j + X_k + \beta_1 + \dots + \beta_{17} + PE_n + a_n + e_p$ where Y_{ijknp} is the milk, fat, fat percentage, SNF, SNF percentage, energy concentration, or lactation energy record; μ is an overall mean; YS_i is the effect common to all cows calving in year-season; X_k is the effect common to cows in either the high or average selection line; β_1 to β_{17} are the binomial regressions of production record on mtDNA

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D-loop sequence polymorphisms; PE_n is permanent environmental effect common to all records of cow n; a_n is effect of animal n and is composed of the additive genetic contribution of sire and dam breeding values and a

Mendelian sampling effect; and e_p is a random residual. It was found that eleven of seventeen polymorphisms tested influenced at least one production trait. Bovines having the best polymorphic forms for milk production at these eleven loci are used as parents for breeding the next generation of the herd.

O. Genetic Mapping of Phenotypic Traits

The previous section concerns identifying correlations between phenotypic traits and polymorphisms that directly or indirectly contribute to those traits. The present section describes identification of a physical linkage between a genetic locus associated with a trait of interest and polymorphic markers that are not associated with the trait, but are in physical proximity with the genetic locus responsible for the trait and co-segregate with it. Such analysis is useful for mapping a genetic locus associated with a phenotypic trait to a chromosomal position, and thereby cloning gene(s) responsible for the trait. Lander et al., Proc. Natl. Acad. Sci. (USA) 83, 7353-7357 (1986); Lander et al., Proc. Natl. Acad. Sci. (USA) 84, 2363-2367 (1987); Donis-Keller et al., Cell 51, 319-337 (1987); Lander et al., Genetics 121, 185-199 (1989)). Genes localized by linkage can be cloned by a process known as directional cloning. See Wainwright, Med. J. Australia 159, 170-174 (1993); Collins, Nature Genetics 1, 3-6 (1992).

Linkage studies are typically performed on members of a family. Available members of the family are characterized

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for the presence or absence of a phenotypic trait and for a set of polymorphic markers. The distribution of polymorphic markers in an informative meiosis is then analyzed to determine which polymorphic markers cosegregate with a phenotypic trait. See, e.g., Kerem et al., Science 245, 1073-1080 (1989); Monaco et al., Nature 316, 842 (1985); Yamoka et al., Neurology 40, 222-226 (1990); Rossiter et al., FASEB Journal 5, 21-27 (1991).

Linkage is analyzed by calculation of LOD (log of the 10 odds) values. A lod value is the relative likelihood of obtaining observed segregation data for a marker and a genetic locus when the two are located at a recombination fraction θ , versus the situation in which the two are not linked, and thus segregating independently (Thompson & Thompson, Genetics in Medicine (5th ed, W.B. Saunders Company, Philadelphia, 1991); Strachan, "Mapping the human genome" in The Human Genome (BIOS Scientific Publishers Ltd, Oxford), Chapter 4). A series of likelihood ratios are calculated at various recombination fractions (θ) , 20 ranging from θ = 0.0 (coincident loci) to θ = 0.50 (unlinked). Thus, the likelihood at a given value of θ is: probability of data if loci linked at θ to probability of data if loci unlinked. The computed likelihoods are usually expressed as the log_{10} of this ratio (i.e., a lod 25 score). For example, a lod score of 3 indicates 1000:1 odds against an apparent observed linkage being a coincidence. The use of logarithms allows data collected from different families to be combined by simple addition. Computer programs are available for the calculation of lod 30 scores for differing values of θ (e.g., LIPED, MLINK (Lathrop, Proc. Nat. Acad. Sci. (USA) 81, 3443-3446 (1984)). For any particular lod score, a recombination fraction may be determined from mathematical tables.

Smith et al., Mathematical tables for research workers in human genetics (Churchill, London, 1961); Smith, Ann. Hum. Genet. 32, 127-150 (1968). The value of θ at which the lod score is the highest is considered to be the best estimate of the recombination fraction.

Positive lod score values suggest that the two loci are linked, whereas negative values suggest that linkage is less likely (at that value of θ) than the possibility that the two loci are unlinked. By convention, a combined lod score of +3 or greater (equivalent to greater than 1000:1 odds in favor of linkage) is considered definitive evidence that two loci are linked. Similarly, by convention, a negative lod score of -2 or less is taken as definitive evidence against linkage of the two loci being compared.

Negative linkage data are useful in excluding a chromosome or a segment thereof from consideration. The search focuses on the remaining non-excluded chromosomal locations.

IV. Modified Polypeptides and Gene Sequences

The invention further provides variant forms of nucleic acids and corresponding proteins. The nucleic acids comprise one of the sequences described in the Table, column 8, in which the polymorphic position is occupied by one of the alternative bases for that position. Some

25 nucleic acids encode full-length variant forms of proteins. Similarly, variant proteins have the prototypical amino acid sequences encoded by nucleic acid sequences shown in the Table, column 8, (read so as to be in-frame with the full-length coding sequence of which it is a component)

30 except at an amino acid encoded by a codon including one of the polymorphic positions shown in the Table. That position is occupied by the amino acid coded by the

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corresponding codon in any of the alternative forms shown in the Table.

Variant genes can be expressed in an expression vector in which a variant gene is operably linked to a native or other promoter. Usually, the promoter is a eukaryotic promoter for expression in a mammalian cell. The transcription regulation sequences typically include a heterologous promoter and optionally an enhancer which is recognized by the host. The selection of an appropriate promoter, for example trp, lac, phage promoters, glycolytic enzyme promoters and tRNA promoters, depends on the host selected. Commercially available expression vectors can be used. Vectors can include host-recognized replication systems, amplifiable genes, selectable markers, host sequences useful for insertion into the host genome, and the like.

The means of introducing the expression construct into a host cell varies depending upon the particular construction and the target host. Suitable means include 20 fusion, conjugation, transfection, transduction, electroporation or injection, as described in Sambrook, supra. A wide variety of host cells can be employed for expression of the variant gene, both prokaryotic and eukaryotic. Suitable host cells include bacteria such as 25 E. coli, yeast, filamentous fungi, insect cells, mammalian cells, typically immortalized, e.g., mouse, CHO, human and monkey cell lines and derivatives thereof. Preferred host cells are able to process the variant gene product to produce an appropriate mature polypeptide. Processing includes glycosylation, ubiquitination, disulfide bond formation, general post-translational modification, and the like.

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The protein may be isolated by conventional means of protein biochemistry and purification to obtain a substantially pure product, i.e., 80, 95 or 99% free of cell component contaminants, as described in Jacoby,

Methods in Enzymology Volume 104, Academic Press, New York (1984); Scopes, Protein Purification, Principles and Practice, 2nd Edition, Springer-Verlag, New York (1987); and Deutscher (ed), Guide to Protein Purification, Methods in Enzymology, Vol. 182 (1990). If the protein is secreted, it can be isolated from the supernatant in which the host cell is grown. If not secreted, the protein can be isolated from a lysate of the host cells.

The invention further provides transgenic nonhuman animals capable of expressing an exogenous variant gene and/or having one or both alleles of an endogenous variant gene inactivated. Expression of an exogenous variant gene is usually achieved by operably linking the gene to a promoter and optionally an enhancer, and microinjecting the construct into a zygote. See Hogan et al., "Manipulating 20 the Mouse Embryo, A Laboratory Manual, " Cold Spring Harbor Laboratory. Inactivation of endogenous variant genes can be achieved by forming a transgene in which a cloned variant gene is inactivated by insertion of a positive selection marker. See Capecchi, Science 244, 1288-1292 (1989). The transgene is then introduced into an embryonic stem cell, where it undergoes homologous recombination with an endogenous variant gene. Mice and other rodents are preferred animals. Such animals provide useful drug screening systems.

In addition to substantially full-length polypeptides expressed by variant genes, the present invention includes biologically active fragments of the polypeptides, or analogs thereof, including organic molecules which simulate

the interactions of the peptides. Biologically active fragments include any portion of the full-length polypeptide which confers a biological function on the variant gene product, including ligand binding, and antibody binding. Ligand binding includes binding by nucleic acids, proteins or polypeptides, small biologically active molecules, or large cellular structures.

Polyclonal and/or monoclonal antibodies that specifically bind to variant gene products but not to 10 corresponding prototypical gene products are also provided. Antibodies can be made by injecting mice or other animals with the variant gene product or synthetic peptide. fragments thereof. Monoclonal antibodies are screened as are described, for example, in Harlow & Lane, Antibodies, A 15 Laboratory Manual, Cold Spring Harbor Press, New York (1988); Goding, Monoclonal antibodies, Principles and Practice (2d ed.) Academic Press, New York (1986). Monoclonal antibodies are tested for specific immunoreactivity with a variant gene product and lack of immunoreactivity to the corresponding prototypical gene product. These antibodies are useful in diagnostic assays for detection of the variant form, or as an active ingredient in a pharmaceutical composition.

V. Kits

The invention further provides kits comprising at least one allele-specific oligonucleotide as described above.

Often, the kits contain one or more pairs of allele-specific oligonucleotides hybridizing to different forms of a polymorphism. In some kits, the allele-specific oligonucleotides are provided immobilized to a substrate. For example, the same substrate can comprise allele-specific oligonucleotide probes for detecting at least 10,

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100 or all of the polymorphisms shown in the Table.

Optional additional components of the kit include, for example, restriction enzymes, reverse-transcriptase or polymerase, the substrate nucleoside triphosphates, means

used to label (for example, an avidin-enzyme conjugate and enzyme substrate and chromogen if the label is biotin), and the appropriate buffers for reverse transcription, PCR, or hybridization reactions. Usually, the kit also contains instructions for carrying out the methods.

The following Examples are offered for the purpose of illustrating the present invention and are not to be construed to limit the scope of this invention. The teachings of all references cited herein are hereby incorporated herein by reference.

15 EXAMPLES

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The polymorphisms shown in the Table were identified by resequencing of target sequences from three to ten unrelated individuals of diverse ethnic and geographic backgrounds by hybridization to probes immobilized to

20 microfabricated arrays or conventional sequencing. The strategy and principles for design and use of such arrays are generally described in WO 95/11995. The strategy provides arrays of probes for analysis of target sequences showing a high degree of sequence identity to the reference sequences of the fragments shown in the Table, column 1. The reference sequences were sequence-tagged sites (STSs) developed in the course of the Human Genome Project (see, e.g., Science 270, 1945-1954 (1995); Nature 380, 152-154 (1996)). Most STS's ranged from 100 bp to 300 bp in size.

A typical probe array used in this analysis has two groups of four sets of probes that respectively tile both strands of a reference sequence. A first probe set

comprises a plurality of probes exhibiting perfect complementarily with one of the reference sequences. Each probe in the first probe set has an interrogation position that corresponds to a nucleotide in the reference sequence.

That is, the interrogation position is aligned with the corresponding nucleotide in the reference sequence, when the probe and reference sequence are aligned to maximize complementarily between the two. For each probe in the first set, there are three corresponding probes from three additional probe sets. Thus, there are four probes corresponding to each nucleotide in the reference sequence. The probes from the three additional probe sets are identical to the corresponding probe from the first probe

set except at the interrogation position, which occurs in
the same position in each of the four corresponding probes
from the four probe sets, and is occupied by a different
nucleotide in the four probe sets. In the present
analysis, probes were 25 nucleotides long. Arrays tiled
for multiple different references sequences were included
on the same substrate.

Multiple target sequences from an individual were amplified from human genomic DNA using primers for the fragments indicated in the listed Web sites. The amplified target sequences were fluorescently labelled during or after PCR. The labelled target sequences were hybridized with a substrate bearing immobilized arrays of probes. The amount of lable bound to probes was measured. Analysis of the pattern of label revealed the nature and position of differences between the target and reference sequence. For example, comparison of the intensities of four corresponding probes reveals the identity of a corresponding nucleotide in the target sequences aligned with the interrogation position of the probes. The

corresponding nucleotide is the complement of the nucleotide occupying the interrogation position of the probe showing the highest intensity (see WO 95/11995). existence of a polymorphism is also manifested by 5 differences in normalized hybridization intensities of probes flanking the polymorphism when the probes hybridized to corresponding targets from different individuals. For example, relative loss of hybridization intensity in a "footprint" of probes flanking a polymorphism signals a 10 difference between the target and reference (i.e., a polymorphism) (see EP 717,113). Additionally, hybridization intensities for corresponding targets from different individuals can be classified into groups or clusters suggested by the data, not defined a priori, such that isolates in a give cluster tend to be similar and 15 isolates in different clusters tend to be dissimilar. Hybridizations to samples from different individuals were performed separately. The Table summarizes the data obtained for target sequences in comparison with a reference sequence for the individuals tested.

From the foregoing, it is apparent that the invention includes a number of general uses that can be expressed concisely as follows. The invention provides for the use of any of the nucleic acid segments described above in the diagnosis or monitoring of diseases, such as cancer, inflammation, heart disease, diseases of the CNS, and susceptibility to infection by microorganisms. The invention further provides for the use of any of the nucleic acid segments in the manufacture of a medicament for the treatment or prophylaxis of such diseases. The invention further provides for the use of any of the DNA segments as a pharmaceutical.

All publications and patent applications cited above are incorporated by reference in their entirety for all purposes to the same extent as if each individual publication or patent application were specifically and individually indicated to be so incorporated by reference.

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0707 IW	300	 			TGTGAAACTCCACTTGAAGCCAAAGAAAGAAACTCACACTTAAAACACATGCCAGTTGGGAAGGTCT GAAAACTCAGTGCATAATAGGAACACTTGAGACTAATGAAAGAGAGAG
					AAGCCATTGACGTAACATCTCAGAGGTTATTTGCATGGATTGACTCCTGGGACAAAAGGACGACJAA AAACACTCTTCTGTGGATATCTGTGCAGATAGATGACCCAAAGATCAGATGCTACCCAGATGTGTTTT GATAATACATAAGCCCCTAGGATTTAGATACAATCTTGAAAGAAA
WI-10744	9	<u>.</u>	•		GGGCAAATTACCAGCAAAAAGTCAAATTACCAGCATCAAAGTCAGGTGCAAAGGAGGTAGAACAA TTACAGTAACTATGTCAATCTTTTTGTTATATTAGTATTATCTGCCCAATGCCTAGAATA[C/T]AGTG GGTCCCTAATAGTTATTAGTTCTTCTCTCTCTCTGAATTTTTTTATATTAAAAAAAA
WI-9975	126 C	F			GGGATTAGTTACCACCAAAATGTGTATGTATCAATTTGATTCTTACTGAA GCTAGGTTTTGTTTCTGTTGACTGACTTGAGATGACTTGATTTACAGTAATCCTATGT GATGTAACTAGTCTAGACCTTCCCCTCTCCGCCAATTCCCAGGTTCCAGGATTTACAGAAAGTATGCCACAC
WI-8010	247	<u>-</u> 5	<u>:</u>	ŀ	TCAACCCTTCTCTCCAGITCATCCTGTATTAATTTCTTCCCATATTAATTCAAAGGGAGTGGACAGGT CCCTGGCTGAAAAGAAATAAAGAGATCCCCAAAGTGGTGGGGGGGTGTT
WILESSON	α α			į	GCCCGGCCTATCTITIAATTITIAACTTGTATCTITGGTGTTTCTCCCATCCTAGGATTCTGCCTTATAT CTTTTGTTGCCTGTATAT CTTTTGTTCTGCTGTGTGTTTTGTTGTTGTGTGTCTGCTG
CCC IN	S				GCCCGGCCTATCTTTTAATTTTAACTTGTATCTTTGGTGTTTCTCCATCCTA[G/C]GATTCTGCCTTAT AATCTTTGTCCTGTCTGTAGATTACCTGATTCTACTTTTTGATACACAAGGCTGATGGCTCACAATGT AGTAGTGCCAATTCTTCAGGTCTCTTTGAATTTTTCTCTGCTATTGAGGACATTTCCACTTTCTACTTA TCTCGACTCTATAACAACTCCAACAGAA
7000 IW					TATGCACTTCCACAAAAGCGATATAAATTTAAAAAGTTTTTTTCATTAGAAATAAAT
		5			TCAGTTGCAAAAATTGCTGCCATAAACATGCTTTGCTTATCTCTGTGCATATGTATG
WI-9823	97	97 C T			ATGCTTTCCAATCTGATTTTGTATGACTATTGTATGCACAGITGGATCACC

			TCTCTACATTCTATGGACAACCTCCATGCCTTTGCACATGCTGATCCTTCCT
			ACTICACATORIA CARACTERIO DE CONTRO D
WI-9651b 1	105 A T	i	TCTTTAAACCTGTAATGGTATAATCCTTGGTGTTTGAATGTCTCTC
			TCTCTACATTICTATGGACAACCTCCATGCCTTTGCACATGCTGATCCCTCCTCGGAATTCCTTTCCTTTCCTTTAGACACCTTAGACACCTTAGACACCTTAGACACCTTAGACACACTTAGACACACAC
			CT/CJACAGGTACAGCCGACCATGCCTACCTCCATGGCACTGCCAGGGGACCCTTATAGGCCTCTGT
WI-9651	139 T C		CTTTAAACCTGTAATGGTATTTAATCCTTGGTGTTTGAATGTCTCTC
			GTGACCTTCCTGCAGCGTGGAGATGGCACATCCTTGCTGGCGGACTTGGCCCTGCTATTTATT
			TATTITATGICTI AGICTOTI CCACTGATGCATCC CCAAAGGGATAGATGGAGTGCAGTGTGGAGTGCTGGTGGTGCTGGTGG
WI-7676b	309 A C	•	TCCCCCCGTCCTCGAGGCAGTATAGGAGAGAGAGCAAGGATTGAGT
			GTGACCTTCCTGCAGCGTGGAGATGGCACATCCTTGCTGCTGGGGACTTGGCCCTGCTATTTTTTG
		·	TATTTATGTCTTAATCTCTTCCACTGATGCATCCTCCAAGGGTAGATGGGGAGGGTCTGTGTGTG
WI.7676			GC/TJGGCTTCTCTTGGTGCCTGCTTGCAGGGGCAGGAAGCGTGTGGACTGCAGCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGC
1			CATTATCTTGTCCTTGGGTCTGTTCATTCACTTTCCTCTCTCT
			CATCTGGCCCTTTTTTGAGTTTTTGAATATTTTTGT[@A]TGACTCCTATGCACATGATAAATTTGTTA
			TGCTTGTCTCTTATCTTATCTTTTATAGGAGTTTTGGCCATGACCCTTTATGAGGAGAAAAGGGA
WI-10072	105 G A	:	TCACCCCCTTTTGCCTCTACAACCTTATAGATATTTTAAATATCTTT
			TTGGTGTGAACTCAGAATATAGGGAAAATAAGACAATTTGAA[T/A,C]GTACCCCAGGAAACAAGAG
	⋖		CCCTGCACTTGACTCCAAAAGGAGTTCTATTATTCTGGCTGTTTCCAGACTTTATTGTATCTTGAGAA
	-		GAGAACTGTTTCCCTCTAAATCAGTTTCATCTGTATCCAGGGTAGTACTCACAAGAACATGTCA
WI-9986	42 T C		ATATCAATAGCATGCATATGGGGTGTTGGATTCTTAGAACTTATTGCAATT
			GTCTATTGCAGGAGAAACGTCCCTTGCCACTCCCCACTCTATCAGGCCAAGTGGAGGACTGGCCAGA
			GGGCCTGCACATGCAAACTCCAGTCCCTGCCTTCAGAGAGCCTGAAAAGGGTCCCTCGGTCTTTATTT
			CAGGGCTTTGCATGCGCTCTATTCCCCCTCTGCCTCTC[C/A]CCACCTTCTTTGGAGCAAGGAGAIGC
WI-7041	174 CA		AGCTGTATTGTAACAAGCTCATTTGTACAGTGTCTGTTCATGTAATAA
			ATAAACCCTTGTGTATGTATCACCCAACTCACTAATTATCAACTTATGTGCTATCAGATATCCTCTCT
			ACCCTCACGTTATTTTGAAGAAAATCCTAAACATCAAAATACTTTCATCCATAAAAATGTCAGCATT[T]
		-	/CJATTAAAAAACAATAACTTTTTAAAGAACATAAGGACACATTTTCAAATTAATAAAAATAAAG
WI-7224	134 T C		GCATTTTAAGGATGGCCTGTGATTATCTTGGGAAGCAGAGTGATTCATGCTAG

			TCTTATTTGCATTTCACAGTAGCCCCATGAAGTAGGTATAACCAGCCTCTATTTTAACATGAGAGGATGGAGGGCCTTTTCCAAAAGACCTGCAJAVC
WI-10826	132 A C	i	JOCOTGGOTTCCTGACTCCAAAGCTTATCCCTTCTCATGCTGTTGCTGTCAGCCAGGACCCATGCCATGCGAAAGCCCAGCCTCTCCCATCCCCAC
			AGATCTGCCATTAGTATTTATTCCTTTGAAGATACTTTGGAGATTCATTTTCTTGAGTGGCACTGCAT GCTCATTCAGTGAAAACTTGTGGGGTATAGAAATGGAATGGAGAGTTTCAAACAGCTTTGCTGAAAC
TIGR- A004S25	145 GA	:	TGTACTTTGG[@/A]CTCCAGACTTCACTGTCCTTAGGCATTGAAACCATCACCTGGTTTGCATTCTTC ATGACTGAGGTTAAATGACTGAGGTTAACTTAAAAC
			AAACACACAGAATCATCAAAGCAC(A/TJATCTGTGTTTGAGATAAATGATAGTCTGAGTCACCTATG TAAGAAGTAACTCTGAAATAGTAGGATAGTATTATCATTTCCTGTAATAGATTCACCTCTCAGCAAT
WI-1021	24 A T		TGGTCTGTTTTCATTCTATGGAAACTCTCCGTACTGTAATTTTCATTCTATGGAAACTCCCCATACTGT AATTGGACAGTTTTGGTTTCCAC
			TAGTATGTCACTGCCATGGTAAGGACTTTGATCACTAGGAAATAAGAACACTTTGAATGGTCTTGTCC TTTCAATAAAAAAGGGCACTTIGAJGCAGGAGTGT TTAGATAAAAGGGCACTTIGAJGCAGGAGTGT TTAGATAAAAGGGCACTTIGAJGCAAGAATAAGGAAATAAGGAAATAAGGAAAAAAAAAA
WI-4687	121 GT	•	GAGGCCCTGAGATCCACTGGATAATCTAAAAAACCAAGAGAAAGAA
			TTCATTTCCCTTCCAAAATCCTTAGGAAATTTTACATTATGGGCTAGTGCTTTGGGTGTGAGCGGATT ATGTCTGACGCCCATGGGTGTTCATAAGTGACTTGAGAGT[T/G]ACTGTAGAGGCTACACAGAAATCT CTGTGAGGGGCATGTAATTGTATTCATTCAACAATTCTGCTATGCTTCTCAGATTGCAGAAAATCAC
WI-4719b	107 T G	:	TGCTCAAAATTCCCCACTTGTCAACTTATCCTTAAGACATTTTTCACAGGA
WI-4719	70 GA	1	TTCATTTCCCTTCCAAAATCCTTAGGAAATTTTACATTATGGGCTAGTGCTTTGGGTGTGAGCGGATT AT[G/A]TCTGACGCCATGGGTGTTCATAAGTGACTTGAGAGGTTACTGTAGAGGCTACACAGAAATCT CTGTGAGGGCATGTAATTGTATTCATTCAACAATTCTGCTATGCTTCTCAGATTGCAGAAAATCACTTGCCTAAGACATTTTTCACAGGA
			TCAACACGCTTTTATTGCCACTTCTGGCTCCCCTCGTCCCAGCAAGATTCCTACCTCTTACCCTGTAGG AATACTGAGGTCCGATGCAGGGGAATGGGGGGGGGTGTTACCACTTCTCCTCTGCACACTGCCAAGT AAAAAAAAAA
WI-9484b	216 GC	•	AGTCCCACTTCT[G/C]ACTGCAGAGTATAGGGACCAGGGTTCCAAAACTTT
			TCAACACGCTTTTATTGCCACTTCTGGCTCCCCTCGTCCCAGCAAGATTCCTACCTCTTACCCTGTAGGAATACTGAGGGGGGGG
WI-9484	178 GA	:	I AAAGAAAACCCI GCI I GCI GGAGAGGGGAGGGCCAGACAGGGAGGAAAI I CAAGGGCAI GI AI G GCTCAGTCCCACTTCTGACTGCAGAGTATAGGGACCAGGGTTCCAAACTTT

			AGGATGGAAGGAGACACGGGGGAGAACTCTCTTCTGCTAAATCGATAGGAGTCAGTTTTGTCT TAAATGCTGACTACAGCCACTGACATGGTTGGCTGGAATTTCTTTTTAATTGTGGCATATAGGTTT
WI-7330	207 CT	1	GTGACACAAGAAGTCATACTTTGGTGGCTAAGTTTTACTAAGGAAAATAACTGAAAAGATTAAAAG TGAGAG(C/TJTGAAAAGAGAAATGATAATGCTTCCAAACTGTAGCTGTCACAG
			TTAAAAACAGTTCAGGTTGGTGAAGCAGAAAAGGGATGTGATTACAATTTAAAATGAATCAGTT
			GCACAATTAATCCTCTTGGCATCATACAAACTGGGTTTTAATGGCAAATGATGACATCATCATAGGAGGAATGCATGATGACACTGAGGGGAAGGCACTGCACCA
WI-9443	211 GA		CTGACGAGACIG/AjCAGAGACCTTGGACTACAGATGACACCACGTGCCCACTT
			TCTCTCAAAAAGAAAAAACAAAAACCCCTAAGAGACTGAGTTCTGCAAGGCATCAGTTCTACTTGAATTCGTG
			ATTITICAAGCAGCATCTTCTGGTTTAAACTTGTTTGCTGTGAACAATTGTCGAAAAGAGTCTTCCAAT
WI-7166	59 CT	•	TAATGCTTTTTATATCTAGGCTACCTGTTGGTTAGATTCAAGGCCCCGAG
			GCTTCTTCCCCAGGAAGCGGGGTCTTGGCCTGGAACCTTCCAGAGAGGAGGGGGGGG
			OCACCCTGCTCCCATCTGCCCCCCTGCAACAGCTGCAGGCTGCTTCCTCTCTGAGTTCCTCTGGGGCT
			GCGCAGGCTCCCCTGGGAATAGAGCAAGACGTGAGTCCTAACCTGGCCACAGT/CJTGGGGGAGCAG
WI-7259b	189 T C	•••	AGCCAGCAGGAGAGAGATTTGCAGGGGCCCAACTTCCCCTGGAGCTC
			GCTTCTTCCCCAGGAAGCGGGGTCTTGGCCTGGAACCTTCCAGAGAGGAGGCGGGGAATTTTAGCC
	ပ —		CCACCCTGCTCCCATCTGCCCCCTGCAACAGCTGCAGCTGCTTCCTCTCTGTGTGTG
			GCGCAGGCTCCCCTGGGAATAGAGCAAGACGTGAGTCCTAACCTGGCCACA(G/C,1)11GGGGGAGCA
WI-7259	188 GT	:	GAGCCAGCAGGTGGACAGGTGTTTGCAGGGGCCCCAACTTCCCCTGGAGC
			GTACTITAGGCCTGTGGAGGGTGGCATTTAGTGGTGACCCTTGCACCAGGGTTTTCTAACAGATGAC
			CCTGTGAATCATAAATTTAAAACCTGCATATATTTATAGCCAGTCACATTTGCCCTCTCACCCTATATG
			GCCATAAACTGCCTAAGCACTCAGGCCTCCCACTCATCAACCCCTTTGACCAGAGAAGAAGCACTC
WI-7322	275 A G	•	TGGTTCTCTATCCCCTTGTCACATAGAGAGTTTGTCATGGGGCCTCTGGCTG
			TCAGTTCTAGTCTCTGGGGCCACACACAGAAACTCTTTTGGGCTC[T/C]TTTTCTCCCTCTGGATCA
			AAGTAGGCAGGACCATGGGACCAGGTCTTGGAGCTGAGCCTCTCACCTGTACTCTTCCGAAAAATCCT
			CTTCCTCTGAGGCTGGATCCTAGCCTTATCCTCTGATCTCCATGGCTTCCTCCTCCTCCTGCTGCCGACTC
WI-7685	46 T C		CTGGGTTGAGCTGTTGCCTCAGTCCCCAACAGATGCTTTTCTGTCTC
			TGTGACCAATTGTTATTTAGAGGGTTTAACAATGGCCTGACTATCACCTGATGGTCGCCAGAATTTC
			CTGGGGGAGGGCCTCCCCT[G/A]CCCTGATCATGTCTACCTAACTGCCTACTCTAACAATACTACTCC
			TGTGGTATGGGGATCCTAAGCCAAAAAGCTGAAATGAACATGTTCTAGCACTACAGAAATCCATACT
WI-563	87 GA	:	GCCCCTCAGTAAAGGCAAATTTTAAATCTCTTTGGATAACCCAGGGCACAT

MIL-8916 191 C.A.					
191 C A 1					GACCAGGGCACCAGAAAGCCACGGAAGCCACAGCCACTAGCCCTGAACCTTGCACACACCCTGGAGTT TCTCTCCCCTCCC
81 A G 1		\overline{c}	i	!	GTIGCIGCACIGICALIACIGIIGIAIGGALIIAIAAIIAIIGICCAAAAAAGGCAAAAAGGAAAAGGAAAGAATGTCAGA
331b 81 A G T 331 A G T 5 5 5 5 5 5 5 5 5	:	1			GACCAGGGCACCAGAAAGCCACGGAAGCCACAGCCACTAGCCCTGAACCTTGCACACCCTGGAGTT TCTCTCCCCTCCC
331 31 A G	7	<			TCTGTTGCTGCCACTGTCATTACTGTTGTATGGATTTATAATTATTGTCCAAAAAAGCCCCGAGCCTGG
931 31 A G	0.08-10	(GACCAGGGCACCAGAAAAGCCACGGAAAGCCACIAGIGCCACTAGCCCTGAACCTTGCACACCTGGA
170b 91 CT C C C C C C C C C C C C C C					GTTTCTCCCCTCCCTATCCCTCACCAACACCTTCCAGTGCTTATTCTGCTGTGTCAAAAATGATCCT
10396 72 C.T C.T	WI-931	_ ∢		į	TCIGITGCIGCACTGICALTACTGITGTGGGATTATTATTGTCCAAAAAGCCCCCAAAAAGAAAAAGGCATGGGGAAAGATGTGTCAGA
7719b 281 T C 67719 163 A G 10396 72 C A 67199					GGATGACTTACCCAATAGCAGGGTGGGTACATTCATGGGTAACAACACCCTGGACTGGGATGGCAGA
70b 91 C T (10870 103 G A (7719b 281 T C (7719 163 A G (10396 72 C A (GACATCCACCTTAGCAAAGTGGGG[C/TJACCTACTTAGAGCAGTGGAGTACCCTGAGTACGACCCCC
91 CT 6 70 103 GA 6 9281 T C 6 9 163 A G 6	-iw				TTAGCAGCAGAATTACAAGAAATCTTGGGACCTGTACTCCTGATACAAAATAAGGACATGGGTCAGC
103 GA 6 281 T C	10870b		-		CTGAGCCACTCTTAAACCATGAACCATCACCATTTAAATAACGTTGCCCCCCC
103 G A					GGATGACTTACCCAATAGCAGGGTGGGTACATTCATGGGTAACAACACCCTGGACTGGGATGGCAGA
103 G A 6 281 T C					GACATCCACCTTAGCAAAGTGGGGCACCTACTTAGA[G/A]CAGTGGAGTACCCTGAGTACGCCCC
103 G A 6.281 T G					TTAGCAGCAGAATTACAAGAAATCTTGGGACCTGTACTCCTGATACAAAATAAGGACATGGGTCAGC
281 T C		G			CTGAGCCACTCTTAAACCATGAACCATCACCATTTAAATAACGTTGCCCCCC
281 T C 163 A G					AGTITATTCTTCCAGATGACCAGCAGTAGACAAATGGATACTGAGCAGAGTCTTAGGTAAAAAGTCTT
163 A G					GGGAAATATTTGGGCATTGGTCTGGCCAAGTCTACAATGTCCCAATATCAAGGACAACCACCTAGC
281 T C 163 A G					TTCTTAGTGAAGACAATGTACAGTTATCCATTAGATCAAGACTACACGGTCTATGAGCAATAATGTG
163 A G	WI-7719b	F	::		ATTTCTGGACATTGCCCATGTATAATCCTCACTGATGATTTCAAGCTAAAGCAA
163 A G 72 C A					AGTITATICTICCAGATGACCAGCAGTAGACAAATGGATACTGAGCAGAGTCTTAGGTAAAAAGTCTT
163 A G 72 C A					GGGAAATATTTGGGCATTGGTCTGGCCAAGTCTACAATGTCCCAATATCAAGGACAACCACCTAGC
163 A G 72 IC A					TTCTTAGTGAAGACAATGTACAGTTATCC[A/G]TTAGATCAAGACTACACGGTCTATGAGCAATAAT
72 C A	WI-7719	163 A	·		GTGATTICTGGACATTGCCCATGTATATCCTCACTGATGATTTCAAGCTAAA
72 C A					GCCTTGGAGTATATCTAAACTGTGGCCTCCACTTTCATTTTTCTTGAAACATTGCTATCAACTGGGAA
72 C A					GAGTĮC/AJTGTGACTTTATGCCCAGTTTCCCCTCTCAGATTTTTATGACGGTTGTTTTCTTTTGTTA
72 C A					TGCCATTTGAGGGATTGATGTTTCTTAAACTATGAAGTACTTGGCTGTCTCTCTC
	WI-10396		Α		TTAACAGCCACCATTTGTAAACACTTTGT

			TCCCTTTATGCACCCAAGATATTTATTAAACACCAATTACGTAGCAGGCCATGGCTCATGGACC CACCCCCCGTGGCACTAGGAGGGGGC/GJTGCAGGTTGGAACTATGCAGTGTGCTCCGGCCACACTA
WI-10673	94 C G		GAGAATTGAAGGTCAAGTTGTTGTCAATGATTTGTCAGAGAACCT
			CACAGCCATGCCCTTGAGGAGCCGGCCACCAGATGCTGAATCCCCTATCCCATTCTGTT/CJGTATGAG TCCCATTTGCCTTGCAATTAGCATTCTGTCTCCCCCAAAAAAGAAATGTGCTATGAAGGATTCTTTCCT
WI-7842	57 T C		ACACACTCTGAGTCTCTGAATGAAGCTGAAGGTCTTAGTACCAGAGCTAGTTTTCAGCTGCTCAGAATTCAGCTCCCTTATA
			CTGCCTCATCACGCCACTGGAGTCCACACTTGAATTTGGGCAGCTACCACGGGTCTGCCATGCTCTGG
WI-7721	145 A C		TGTCTCTGC/A/CJTCTGACTCTTTTGAGGTCCCTGTATGTCTACCTCTGACTTCTGTGGTCCCTCTG
			TTTCCAGTCTGTTTTATCCTTTCATTGTCAAAAGATGCTCTTAGACTGAAATTCATAAAGAGTTCCT
WI-4767b	173 C A	•	CTTGCCTTGAGAAATCCTAGAAAGCACAGGGATGACA[C/A]AAATCACTAAGGAATTCCACTAAGA CTCGTCTAACCCAGAGATTTTTAACCT
			TTTCCAGTCTGTTTTATCCTTTCATTGTCAAAAAGATGCTCTTAGACTGA[A/G]ATTCATAAAGAGTT CCTCAGGTCTGGGTAATCCTAGATCTTCCTATATCCATTGAGTGTGATGGAGGAGGAGTGGAGGAGTGAGAATTCCACTAAAGAATTCCACTAAAGAA
WI-4767	50 A G	•	TCCTCTAACCCAGAGATTTTTAACCT
			ATTGCACTGAAGTTTTTGAAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAAGGAATTACTCAAGAAAATGAAGGAGCTGAGGAGTTCAACTACATGTTCTGGGGGCCCGGAGAATAGATGAAATGAAGAAGGAAG
10 / / - I M			ATTGCACTGAAGTTTTTGAAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATTCCGAAGTTTCCAAGTTTCCAAGATTCCTAAGTTACTCAAGCAGTTACTCCAAGAGTTACTCAAGATACTTCAAGATACTTACT
WI-7718e	 D		GGATTACAGAAACTGATGCCAAGGGGCTGAGTGAGTTCAACTACATGTTCTGGGGGCCCGGAGATAG ATGACTTTGCAGATGGAAAGAGGGTGAAAATGAAGGAAGG
	1		ATTGCACTGAAGTTTTTGAAATACCTTTGTAIG/AITTACTCAAGCAGTTACTCCCTACACTGATGCAA
			GGATTACAGAAACTGATGCCAAGGGGCTGAGTGAGTTCAACTACATGTTCTGGGGGGCCCGGAGATAG
WI-7718d	31 GA		ATGACTTTGCAGATGGAAAGAGGTGAAAATGAAGAAGGAAG

				ATTGCACTGAAGTTTTTGAAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAAGGA TTACAGAAAACTGATGCCAAGGGG(C/G]TGAGTGAGTTCAACTACATGTTCTGGGGGGCCCGGAGATAG
WI-7718c	91	:	i	ATGACTTTGCAGATGGAAAGAGGTGAAAATGAAGGAAGGA
				ATTGCACTGAAGTTTTTGAAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAAGGA
				ACTITICAGATGGAAAGGGAAAATGAAGGAAGCTGTGGAAAAAAAA
WI-7718b	248 A	<u></u>	:	AGGAACAAAATTACAAAGAACCATGCAGGAAGGAAAACTATGTATT A/G A
				ATTGCACTGAAGTTTTTGAAATACCTTTGTAGTTACTCAAGC[A/C,T]GTTACTCCCTACACTGATGC
		O		AAGGATTACAGAAACTGATGCCAAGGGGCTGAGTGAGTTCAACTACATGTTCTGGAAGCAGGAAAATGAAGAAGGAAG
WI-7718a	42 A	:- . F		TCAAAAGGAACAAAAATTACAAAGAACCATGCAGGAAGGA
				AGGGAATTGTGTTGCTCCTGGAGGAAGCCCAGGCATCATTAAACAAGCCAGTAGGTCACCTGGCTTC
				CGTGGACCAATTCATCTTTCAGACAGCTTTA[G/C]AGAAATGGACTCAGGGAAGAGACTCACATGACTCAGAAGGGACTGAGCTAAAGA
WI-7227d	9 6 6	- 1		GTGTTATTATGGGAAAGGAAATGGCATTGCTGCTTTCAACCAGCGACTAATG
				AGGGAATTGTGTTGCTCCTGGAGGAAGCCCAGGCATCATTAAACAAGCCAGTAGGTCACCTGGCTTC
				GGTTAGTATCTGTGTTTCCGGTGGGGTGTAATAGGGGGATTAGCCCCAGAAGGGACTGAGCTAAACAGTG
WI-7227c	291 G	A	•	TTATTATGGGAAAGGAAATGGCATTGCTTTCAACCAGCGACTAATGCAAI
				AGGGAATTGTGTTGCTCCTGGAGGAGGCCCAGGCATCATTAAACAAGCCAGTAGGTCACCTGGCTTC CGTGGACCAATTCATCTTTCAGACAA(G/T)CTTTAGAGAAATGGACTCAGGGAAGAGAGACTCACATGC
	0	ļ-	į	TTTGGTTAGTATCTGTGTTTCCGGTGGGTGTAATAGGGGGATTAGCCCCAGAAGGGACTGAGCTAAACA
0/27/11) 			AGGGAATTGTGTTGCTCCTGGAGGIA/GJAGCCCAGGCATCATTAAACAAGCCAGTAGGTCACTGGC
				TTCCGTGGACCAATTCATCTTTCAGACAAGCTTTAGAGAAATGGACTCAGGGAAGAGAGACTCACATGC
WI-7227a	24 A			GTGTTATTATGGGAAAGGAAATGGCATTGCTGCTTTCAACCAGCGACTAATG
				CCACAATGCCTCTCCCACGATGTCAAGGACTCCTGTCTGT
				AAGAGGAAGCAAGAAAGCCGTACTGTCTATGTTGTGATCCTTCATCGAACAAACTGATGCGAAAACT
				TGAATCTGTTACTGAAATGAGGAGAAGGACATGTGCTATTGAACTGAGCCAAACACACTGTAAAT
WI-7310b	234 AC		:	ATCCACAGACTCCCTCCCCTGCCCCCAIACIAIGAICI I GAGAII I C

				CCACATGCCTCTCCCACGATGTCAAGGACTCCTGTCTGTC
				JCCGAAGAGGAAGCAAGAAAGCCGTACTGTCTTGTTGTGTTCTTCATCGAACAAACTGATGCGAA
100	F			AACTTGAATCTGTTACTGAAATGAGGAGAGAGGACATGTGCTATTGAACTGAGCCAAACACACTGT
WI-/310a	4			CENSON ACACETACACCETTETCACCTSCCTEGGGCTCCTATGATGGCCTGCTGGTTGATAATAATCA
				GATCATGCCCAAGACGGGCCTCCTGATAATCGTCTTGGGCATGATTGCAATGGAGGGCAAATGCGTCC
				CTGAGGAGAAAATCTGGGAGGAGCTG[A/G]GTGTGATGAAGGTGTATGTTGGGAGGGGAGGACACAGTGT
WI-7878b	162 A	5		CTGTGGGGAGCCCAGGAAGCTGCTCACCCAAGATTTGGTGCAGGAAAACTA
				CCAGCAACACCTACACCTTGTCACCTGCCTGGGACTCCTATGATGGCCTG[C/G]TGGTTGATAATAA
				TCAGATCATGCCCAAGACGGGCCTCCTGATAATCGTCTTGGGCATGATTGCAATGGAGGGCAAATGC
				GTCCCTGAGGAGAAATCTGGGAGGAGCTGAGTGTGATGAAGGTGTATGTTGGGAGGGA
WI-7878a	51 C	: 5		TCTGTGGGGAGCCCAGGAAGCTGCTCACCCAAGATTTGGTGCAGGAAAACTA
				CTCCACATTCCCACAGGCCTTGAGCAGAATTTTCTGAGACTGAAGGGAAATCCCCCTTTCTTT
				AGCOCTGCAAGTTTCCTCATGGACGCTCGCGAGGAGGAGCAGGCTGCAGGTTTCCTGCCTATGGTGAGATC
				AGATGTGGCCAAGGGAAGGAGCTCTGGTTCCAGAGAATTTGCACAAAGTTCCCTCTGTACAGAGACA
WI-7381c	213	C1	•	AAACGGCCTCJCJGGCTCTCAGAGCATAATCCTTGGCAGGGCTCAGCAGG
				CTCCACATTCCCACAGGCCTTGAGCAGAATTTTCTGAGACTGAAGGGAAATCCCCCGC/GJCTTTCTTTCT
				ACCAGCOCTGCAAGTTTCCTCATGGACGCTCGCGAGGAGCAGGCTGCAGGTTTCCTGCCTATGGTGAG
				ATCAGATGTGGCCAAGGGAAGGAGCTCTGGTTCCAGAGAATTTGCACAAAGTTCCCTGTGTACAGAG
WI-7381b	54 C	1 0	1	ACAAAACGGCCTCCCGGCTCTCAGAGCATAATCCTTGGCAGGGCTCAGCAGG
				CTCCACATTCCCACAGGCCTTGAGCAGAATTTTCTGAGACTGAAGGGAAATCCIC/GJCCTTTCTTCT
•				ACCAGCCCTGCAAGTTTCCTCATGGACGCTCGCGAGGAGCAGGCTGCAGGTTTCCTGCCTATGGTGAG
				ATCAGATGTGGCCAAGGGAAGGAGCTCTGGTTCCAGAGAATTTGCACAAAGTTCCCTCTGTACAGAG
WI-7381a	53	50	;	ACAAAACGGCCTCCCGGCTCTCAGAGCATAATCCTTGGCAGGGCTCAGCAGG
	:			AAATTGCTCTATTCGGACCCTCATATTAAATAAGAGCAATGAGAGGGAGG
				AGGTACTGACTGTGGGACCAGACAAG[G/A]GATGTAGATTGTCACATTCAATCCTGAAACAAACCTG
				CCAGGCAAGTCTTCTTCCCATTTTACAAATAAGGAGACAAAAATTAGGAGATTAAATAACTCATCAC
WI-1017b	93	G A	•	TGTTTTCAAAATAAGGAGTGTGTGAGGTTTTGTCCC
				AAATTGCTCTATTCGGACCCTCATATTAAATAAGAGCAATGAGAGCGAGGGAAAATTGAACTCTCTC
				AGGTACTGACTGTGGGACCAGACAA(G/A)GGATGTAGATTGTCACATTCAATCCTGAAACAAACCTG
				CCAGGCAAGTCTTCTTCCCATTTTACAAATAAGGAGACAAAATTAGGAGATTAAATAACTCATCAC
WI-1017a	92 G A	G A	•	TGTTTTCAAAATAAGGAGTGTGTGAGGTTTTGTCCC

	F			CCOCALLACTION AND AND AND AND AND AND AND AND AND AN
				GAAGCAACCAGAAAAGIAICIIIAICCCCAICIAGAITAGATCTCAGTGCTTTGCAGAAAAGTAAAAGT/C)C
	1			GTCTACCATTITCACCAAATITCGTAGTACAATITAAGTATCTCTTGTTATCTCCCCTAGGAGTCTAA
WI-1795b 1	130	:		AGTGAGCTGGGGAAGGCAGGAIII
				GAAGCAACCAGAAAGTATCTTTATCCCCATCTAGATTATGTCTGGGT[T/C]CTTCCAGACTCCTACGA
				TTAAATTGTATGCATGTGAACAACTGATGAGGTACTTAGATCTCAGTGCTTTGCAGAAAGAA
				GTCTACCATTTTCACCAAATTTCGTAGTACAATTTAAGTATCTCTTGTTATCTCCCCTAGGAGTCTAA
WI-1795a	47 T			AGTGAGCTGGGGAAGGCAGGATTT
				CACACAATTTGCAAACACTTCAAAGTGAACGCCCGACATCATCAGCCCGTTAACGTCCAGGCCATGT
_				CCCACATAGAGAACGCTTTACTTCCACGTCTCTCCATACGTAGGTCCTGGTCTCCTATCACATTGCCA
-iw				CIGAJITAGCCCTCCCTTCCCCTTCCCCTACAGGCCCTCTTCAGGGCCCCCAGTCCCCCTCTGAGACTCCC
10616d	136 G	A	•	ATGGATCATTCCTGTTTCTGTATCAGGCAGTGATTTAACTCCTTTTTTGT
				CACACAATTTGCAAACACTTCAAAGTGAACGCCCGACATCATCAGCCCGTTAACGTCCAGGCCATGT
		-		CCCACATAGAGAACGCTTTACTTCCACGTCTCTCCATACGTAGGTCCTGGTCTCCTATCACATTGCCA
×.				CIGAJTAGOCCTCCCTTCCCCTTACAGGCCCTCTTCAGGGCCCCAGTCCCCCTCTGAGACTCCC
10616c	136 G	Α		ATGGATCATTCCTGTTTCTGTATCAGGCAGTGATTTAACTCCTTTTTTGT
				CACACAATTTGCAAACACTTCAAAGTGAACGCCCGACATCATCAGCCCGTTAACGTCCAGGCCATGT
				CCCACATAGAGAACGCTTTACTTCCACGTCTCTCCATACGTAGGTCCTGGTCTCCTATCACATTGCCA
-iw				CGTAGCICATICTCCCTTCCCCCTACAGGCCCTCTTCAGGGCCCCCAGTCCCCCTCTGAGACTCCC
10616b	141 C	; F	:	ATGGATCATTCCTGTTCTGTATCAGGCAGTGATTTAACTCCTTTTTGT
				CACACAATTTGCAAACACTTCAAAGTGAACGCCCGACATCATCAGCCCGTTAACGTCCAGGCCATGT
				CCCACATAGAGAACGCTTTACTTCCACGTCTCCCATACGTAGGTCCTGGGCJTCTCCTATCACATTG
-iw				CCACGTAGCCCTCCCTTCCCTTCCCCTACAGGCCCTTTCAGGGCCCCCAGTCCCCCTCTGAGACTCCC
10616a	116 G	;	i	ATGGATCATTCCTGTTTCTGTATCAGGCAGTGATTTAACTCCTTTTTTGT
				CTCTTATTTCTCTGGGCACTGCTTTCTTTGGGGGCAAACTTCCAGTATCACT[G/A]ATACTAATATAA
				AAACCCTGTAAGTCTGCTTGCATTTTCAAGATTCAATATATAT
				AATTTTATTTCTCAAGATATAAAAATAAATATTTTCAGTTTCCTCAAAAGGAATATGAAATT
WI-1126c	52 G	A	•	TGTTAAAATGCAAATCCAGCTGTAACTTTTTGGACTTGTCTTTTATTTCTT
				CTCTTATTTCTCTGGGCACTGCTTTCTTTGGGGGCAAACTTCCAGTATCACTGATACTAAAAAA
		· ~		CCCTGTAAGTCTGCTTGCATTTTCAAGATTCAATATATCCAGATTGTTTTCCCAGCAAAGAAATT
				TTATTTCTCAAGATAAAAAATAATATTTAATTTCAGTTTCCTCAAAAGGAATATGAAATTTGTT
WI-1126b	230 T C	<u></u>		AAAATGCAAATCCAGCTGTAACTTTTTT/CJGGACTTGTCTTTTATTTCTT

			CTCTTATTICTCTGGGCACTGCTTTCTTTGGGGGCAAACTTCCAGTATCACTGATACTAATATAAAAA CCCTGTAAGTCTGCTTTCCCAGCAAAGAAA
7	() 		ATTITATITICTCAAGATATAAAAATAAATATTTAATTTCAGTTTCCTCAAAAGGAATATGAAATTT
WI-1120a	-		TAGTGCTAATTTTTGGAAAAGTTTGCTGATTTTTAAAAATCTTTTTAAAACTTGAAAATTTAGAGTAC
•			ATATAAATAAAATAAAGACCAGATAGGTATTAATTCAGATGTATTTTTGCCCTTGT[C/I]ACTAACA
WI- 11183c	124 C T	•	ATGTGGTGCTAGAGTTAGTAATGGAA
			TAGTGCTAATTITTGGAAAAGTITTGCTGATTTTTAAAAATCTTTTTTAAACTTGAAAAATTTTAGAGTAC
M-			ATGACATACAAATGACCAAAAATGATTTTTATGAAGTGTAGGATAGAGTTTTAAA[T/C]ATTGGT
11183b	192 T C	•	ATGTGGTGCTAGAGGTAGTAATGGAA
			TAGTGCTAATTITTGGAAAAGTTTGCTGATTTTTAAAAATCTTTTTTAAAGTCTTTTTTAAAGTGTAAAAATTTAGAAAATTTAGAAAATTTAGCTGAAAAAAAA
W.	- Franklinski		TITATGACATACAAATGACCAAAAATGATGTTTTTATGAAGTGTAGGATAGAGTTTTAAAATATTGGT
11183a	118 CT		ATGTGGTGCTAGAGGTTAGTAATGGAA
			GCTTGGTTTGCTTTAGTCTTATTGTCTCAGTCTTGAGTTCTCCCTTTCTGCCTGGCCCTTTTGTATTCA
-iw			TTCACCAACCTTCTTTTATTCTTCAGGACACTCA(G/A)TTCACATGCCACTCTCGTGACACTGTCTCT
10770b	174 GA	•	TTCACATCTTTCTGTGTCCCCTTTCCC
			GCTTGGTTTGCTTTAGTCTTATTGTCTCAGTCTTGAGTTCTCCCTTTCT[G/T]CCTGGCCCTTTTGTATT
-iw			CTGTTCACCAACCTTCTTTTATTCTTCAGGACACTCCAGTTCACATGCCACTCTCGTGACACTGTCTCT
10770a	49 GT		TTCACATCTTTCTGTGTCCCCTTTCCC
			GATGACAACTTCTGCTGTGACCCTTAGTCCTTGCTCATGACACTTTTCAATCTCTGCCTTGTATCATGG
			TTATCACTGGACA[C/T]AGCCACCTCCCCAGCAGGCTTAGAACTCCATGAGTAAGGGACCCTGTCTA
dZ996-IW	82 C T		GTTTAAACCTTTTCTCTGTACCCAGTACCTAAGTCCAAACTTGCATTCT
			GATGACAACTICTGCTGTGACCCTTAGTCCTTGCTCATGACACTITTCAATCTCTGCCTTGTATCATG
			@CJTTATCACTGGACACAGCCACCTCCCCAGCAGGCTTAGAACTCCATGAGTAAGGGACCCTGTCTA
			ATGTGCCGTTTCTCCTTATGGTATTACACACAGTCATAGGCATGGTAGTCAACTAATGGATCTTGGCT
WI-9667a	68 G C	:	GTTTAAACCTTTTCTCTGTACCCAGTACCTAAGTCCAAACTTGCATTCT

			ACATTITATTAGCAAACAAATCAGCAAAATAATAAATAGAAAGTAATTGCATTICAGACATCTGCTG
Wi-			TCTTTCCCTTACCTTTACTCCTCCCCACCCAAAAATAACGTAAGTACCTATGTC(A/G)TGCCATGTAG
10400d	189 A G	-	TITITIGGITCATITACTIGCAAATTATTCAAAGGCGTTAATGCATTATG
			ACATTITIATTAGCAAACAAATCAGCAAAATAATAAATAGAAAGTAATTGCATTTCAGACATCTGCTG
- -			
10400c	166 A C	1	TTTTTGGTTCATTTACTTGCAAATTATTCAAAGGCGTTAATGCATTATG
			ACATITIATTAGCAAACAAATCAGCAAAATAATAATAAATAGAAAGTAATTGCATTTCAGACATCTGCTG
			GTTAACTGTTATAAGATGGTTTAGCACACATGTAAGCACTTACTAACAAAAAAATAAACTAAAATAAAATAAAATAAAATGCATGTAAGTAA
WI-	165 A G		TELLICCELIACCITIACTECECECECACCE(AGAAAATAACGIAAGATAACGIATATG
	1		ACATITIATTAGCAAACAAATCAGCAAAATAATAAATAGAAAGTAA[T/C]TGCATTTCAGACATCT
			GCTGGTTAACTGTTATAAGATGGTTTAGCACACATGTAAGCACTTACTAACACAATATTTATT
WI-			ATTITICITICCCTIACCTITIACTCCTCCCCACCCAAAAATAACGTAAGTACCTATGTCATGCCATGT
10400a	46 T C		AGTITITIGGITCATTIACTIGCAAATTATTCAAAGGCGTTAATGCATTATG
			AAAGGGCTACAAACTAAGGCCAAAAACCATGAACGGTATAAGGAGGGTAAATGCAAGGGGAGACCC
			CACCTCTCACCA[C/T]TTAGAAAAGGGCATTTCAAGCACATTCAATGAGGCTTCATATACTGGTTAG
-iw			CAAACAAATGGAATGTATTAGCCCAAGGCAGGGTATGGACCAAAAGTGCCCAGTGATGAGGCCACA
10809b	78 CT		GTGAATATCCACCTAACGACCTTCTTGGATGATGTACACATGACATAGGCTTAA
			AAAGGGCTACAAACTAAGGCCAAAAACCATGAACTJGGTATAAGGAGGGTAAATGCAAGGGGAAGA
			CCCCACCTCTCACCACTTAGAAAAGGGCATTTCAAGCACATTCAATGAGGCTTCATATACTGGTTAGC
Wi-			AAACAAATGGAATGTATTAGCCCAAGGCAGGGTATGGACCAAAAGTGCCCAGTGATGAGGCCACAG
10809a	33 C T		TGAATATCCACCTAACGACCTTCTTGGATGATGTACACATGACATAGGCTTAA
			CGAGCTTGGGATAAAGCAAGGGGACCTTGGCGCTCTCAGCTTTCCCTGCCACATCCAGCTTGTTGTCC
			CAATGAAATACTGAGATGCTGGGCTGTCTCCCTTCCAGGAATGCTGGGCCCCCAGGCTGGCCAGAC
			AAGAAGACTGTCAGGAAGGGTCGGAGTCTGTAAAACCAGCATACAGTTTGGCTTTTTCACATTGAT
WI-7038c	266 T C		CATTITTATATGAAAAAAAAAAAAAAAAAAAAAAAAAAAA
			CGAGCTTGGGATAAAGCAAGGGGACCTTGGCGCTCTCAGCTTTCCCTGCCACATCCAGCTTGTTGTCC
			CAATGAAATACTGAGATGCTGGGCTGTCTCTCCCTTCCAGGAATGCTGGGCCCCCAGGCTGGCCAGAC
			AAGA[AC]GACTGTCAGGAAGGGTCGGAGTCTGTAAAACCAGCATACAGTTTGGCTTTTTTCACATT
WI-7038b	140 A C		GATCATTITTATATGAAATAAAAAGATCCTGCATTTATGGTGTAGTTCTGA

				CGAGCTTGGGATAAAGCAAGGGGACCTTGGC[G/A]CTCTCAGCTTTCCCTGCCACATCCAGGCTTGTTG TCCCAATGAAATACTGAGATGCTGGGCTGTCTCTCCCTTCCAGGAATGCTGGGCCCCAGGCTGGCCA
WI-7038a	31 GA		ļ	GACAAGAAGACTGTCAGGAAGGGTCGGAGTCTGTAAAAACCAGCATACAGTTTGGCTTTTTTCACATT GATCATTTTTATATGAAATAAAAAGATCCTGCATTTATGGTGTAGTTCTGA
	:			ATACGCTTTCTGTCTGTCCCACAGTGGAACCAGCACCAGGTGGCCAGGGTCGGGCTCCACACA
				CCCTCAGCCCCTTCAGCTTTGCATGTGTCCATCGGTGACTCAGCACAGAGTTTTCCAACCTCATGTGA CAAAAATACAGATTCCCAGTCTCCTCGCTGGATTTGGATCTAGCAAGACCAGAGACAGAGACGGTCCTAGAA
WI-3429b	64 GT			TCCTGACTGTTAACAAGCACTCCAGGCAATTCTTAAGACCAAGCACGGAGC
				ATACGCTTTCTGTCTGTCCCACAGTGGAACCAGCACCAGGTGGCCAGGGTCGGGCTCCACACTJAG
				CCCTCAGCCCCTTCAGCTTTGCATGTGTCATCGGTGACTCAGCACAGAGTTTTCCAACCTCATGTAAAATACAGATTCCCAGTCTCCTGGATTTGGATCTAGCAAGACCAGAGACGGGTCCTAGAAA
WI-3429a	62 CT		•	TCCTGACTGTTAACAAGCACTCCAGGCAATTCTTAAGACCAAGCACGGAGC
				ATTTTAGGACAGTGAAAAAAAGGGATTTATAAATAAAATCTATGCCATCCAGGAGGTATGTGTCAGT
				GTCCAGAACATCCTAGATGAAGTGGCTTCCTTTGGCGAAAGGATAAAGAGTGAGT
WI-6786c	151 G	 	<u>;</u>	GTGAGCCCCATTCTTCT[G/AJTGGGATAAGGTGTCCATT1GT11CT1GGAGGG1GAAA1GCCACA11CTTTGGCAGGGGGGGGAAA1GCCACA11C
				ATTTTAGGACAGTGAAAAAAAGGGATTTATAAATAAAATCTATGCCATCCAGGAGGTATGTGTCAGT
				GTCCAGAACATCCTAGATGAAGTGGCTTCCTTTGGCGAAAGGAT[A/T]AAGAAGTGAGTGACGGTGA
WI-6786h	114	<u>;</u>		CCTGTGAGCCCCATTCTTCTGTGGGATAAGGTGTCCATTTGTTTG
\neg				
			<i>-</i>	ATTITAGGACAGTGAAAAAAAGGGATITATAAATAAAATCIAIGCCAICCAGGAGGGAGIAIGIGICAGI GTCCAGAACATCCTAGATGAAGTGGCTTCCTTTGGCGAA[A/TJGGATAAAGAAGTGAGTGACGGTGA
				CCTGTGAGCCCCATTCTTCTGTGGGATAAGGTGTCCATTTGTTTCTTGGAGGGTGAAATGCCACATTC
WI-6786a	106 A 7	T	1	TTTTGGCAGGGGACACTCCTTCTGGGTGCTCTATTGCTCAGTTTCATCATT
				GGCTATTTGTAAATGCTTGGTTATTTGACTCCAAAATTGAATAAGTATTGGGGAAGAATCCCTCACCT
				ACTTCCAAATCCCTTACATATCAATTTTACACAAAGCCCCTAAACCTTCAGTTCCAATCACTCTGAAT
				TTCATATACCTCCATTATTAAATTCAATACATCATTGCAGAGAAAAGACAACGGTGCCAACTGGGTT
WI-6711b	226 GT			TGGTTGGTGCCTGCACACCACACGTTTGGCAACTAAGTGTAATCTCTAAA
				GGCTATTTGTAAATGCTTGGTTATTTGACTCCAAAĄT/CJTGAATAAGTATTGGGGAAGAATCCCTC
				ACCTACTTCCAAATCCCTTACATATCAATTTTACACAAAGCCCCTAAACCTTCAGTTCCAATCACTCT
	-			GAATTTCATATACCTCCATTATTAAATTCAATACATCATTGCAGAGAAAAGACAACGGIGCCAACIG
WI-6711a	36 T C	:	<u>:</u>	GETTTGGTTGGTGCCTGCACACCCACAGTGGCAACTAAGTGTAATCTCTAAA

			ATTGTATGCCAAAATCATAATACCCTGCATTCTAGAAACATACAGTGTAATAGAATTTTGAGCCATA TGGTGAAAAAATTTAGAAGTATTATTCTCTATATGTATATACTACGTTTAACATCAATGAATG
WI- 10613b	172 A C	† †	TTTGTCAACTITTGACAAGGCCAGGCAATTTTATTTG[A/C]GCCCTAGGAGGGTTACTATAAI 11AGAAAGGCTCTAACCTTCCACTCTAAATTTTAAGTCTCGGACTTAGGATGTAG
-lw			ATTGTATGCCAAAATCATAACCCTGCATTCTAGAAACATACA[G/A]TGTAATAGAATTTTGAGCCATATGGTGAAAAATTTAGAAGGTATTATTCTCTATATGTATATACTACGTTTAACATCAATGAATG
10613a	44 G A		AAAGGCTCTTACCTTCCACTCTATAATTTTAAGTCTCGGACTTAGGATGTAG
			GCTCTAGTGGGAAACCTCAGGTAGCTCCCGAAGATCTGTGCTTTCCAACAAGTGACTACCCTTGAAGAGACCTTGGGTCTGGGCGTCTTTTCCAGGCCCTGAGAAAGAA
	ŀ		TIGGAATGAACCACTCCCTGCCCATTCCCTATAAGAATATCCCAAGACCCAGGCAATTTTGCCCCTCT
WI-7587C	133 A I	•••	I CCCACA I GCCCCCAI A I GI CI GAACI GCACI
			GCTCTAGTGGGAAACCTCAGGTAGCTCCCGAAGATCTGTGCTTTCCAACAAGAGTGACTAGCGTGAAGAGC ACATCCCCTTCTG[G/A]ATCTGAAAAGAGCCCTTGGCTCAGGGCGTCTTTTCCAGGCCCTGAGGAAA ACATCCCCTTCTG[G/A]ATCTGAAAAGAGCCCTTGGCTCAGGGCGTCTTTTTCCAGGCCCTTGAGAAA
WI-7587b	81 GA	•	TCCCACATGCCCCCATATGTCTGAGCCAAACTGCACTGGGGGGCTGCCCTC
			GCTCTAGTGGGAAACCTCAGGTAGCTCCIC/TJGAAGATCTGTGCTTTCCAACAAGTGACTACCCTTGAAAAGAGCCTTGGCTCAGGGCGTCTTTTCCAGCCCTGAGGAAAAAAGAGCCTTGGCTCAGGGCGTCTTTTCCAGCCCTTGAGAAAAAAAA
WI.75872	F C		AGGAATGAACCACTCCCTGCCCATTCCCTATAAGAATATCCCAAGACCCAGGCAATTTTGCCCCTCTT
3 (00)			ATGACTCAGGTGACAAAAGAAGCATGTCCTAGACCCCATTGACTTACGCAAACTCAATCAGCCAACC
			ACAGAAAAGCTAAAGACATCCTTTTTAAAAAAGCCTT/AJAAAGACAGCCATTTTAATCCTAATTCG
			TAGTITATGATTITCTCAAAAATTTCCCCACACACAGAAAGAAACTTCAAGGTTAGGTTCTAATGTTA
10681b	103 T A		CCATIGCTAACACIATION GOOD AT TO A CONTROL OF THE A MOTTA OF A CONTROL O
			A I GACAGAAAAAGAAAGAAGAAGAAAAAAAAAAAAAAA
<u>×</u>			TAGTTTATGATTTTCTCAAAATTTCCCCACACACAGAAAGAA
10681a	41 A T		CCATTGCTAACACTATTGTCTTTGGAGAAGGAGGAGTGACGCTCTGTTAAAAG
			GCCTCTCCTCAACTGTCCTGGACCCAAGGCTAGGAAAGGGCTGCTTGAGATGACTGTGGTCCCCCTT
			AGACTCCCTAAGCCCGAGTGAGCTCAGGTGTCACCCTGTTCTCAAGTTGGGGGATGGG[G/TJAATAA
	• · ·		AGGAGGGGAATTCCCTTGAACAAGAACTGGGGATAGTTATATTTCCACCTGCCCTTGAAGCTT
WI-7222c	126 GT		TAAGACAGTGATTTTGTGTAAGGTTGTATTTCAAAGACTCGAATTCATTTT

		·	AGACTCCTCCAAGCCCGAGTGAGCCCAAGGCTAGGAAAGGGCTGCTTGAGATGACTGTGGTCCCCCTTTAAAGCCCCTGTTCTCAAGTTGGGGGATGGGGAATAAAGCTTTAAA
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WI-7222a 126	:- - -	:	GCCTCTCCTCAACTGTCCTGGACCCAAGGCTAGGAAAGGGCTGCTTGAGATGACTGTGGTCCCCCTT AGACTCCCTAAGCCCGAGTGAGCTCAGGTGTCACCCTGTTCTCAAGTTGGGGGATGGG[G/TJAATAA AGGAGGGGGAATTCCCTTGAACAAGAAGTGGGGATAGTTATATTTCCACCTGCCCTTGAAGCTT TAAGACAGTGATTTTTGTGTAAGGTTGTATTTCAAAGACTCGAATTCATTTT
	O O		AAAGATGACACTTAGAACTGGATCACTTGGCCCTTTCTCTT[C/A]TTATCTCCTCCCAGTTCAAAATGCTTGCATCTTTTAATAGCCAGCATTCTTTAGATCTGCAGTTGGGCTCAACGCACTCAAGGCTTAGCACTCAACGCTTAGCATTTAGCCTTTTTCCGGAAAATCGGCTTAGTTTGCCACCATAGCCATTGTGCTTTTCCTGGCGAAAATCGTTGCCTTGCCATAACGCCGCTTTTCCTGGGCGTACATGCCCTTGCCTTTGCTTGCCTTGCCTTGCCTTGCCTTGCCTTGCCTTGCCTTGCCTTGCCTTGCCTTGCTTGCTTGCCTTTGCCTTTGCCTTTGCCTTTGCCTTTTTGCTTTGCTTTGCTTTGCTTTGCTTTGCTTTGCTTTGCTTTTTGCCTTTGCTTTTTT
WI-8054c 237	U		AAAGATGACACTTAGAACTGGATCACTTGGCCCTTTCTTT
WI-8054b 148 T	3 7 6	:	AAAGATGACACTTAGAACTGGATCACTTGGCCCTTTCTTCTTATCTCCTCCCAGTTCAAAATGCTT GCATCTTTAATAGCCAGCATTCTTAGATCTGCAGTTGGGCTCAACGCACTCAAGCCTTAGCACA TCTTCTTTGTAG[T/C]TTTAGCCTTTTTCCGGAAAATCGGCTTAGTTTGCCCACCATAGCCACTCTGCT TCCTGTCATAACGCCGCTTTCCCTGGGCGTACAGAATCCTTGCCCTT
WI-8054a 131 C			AAAGATGACACTTAGAACTGGATCACTTGGCCCTTTCTTCTTATCTCCCCCAGTTCAAAATGCTT GCATCTTTTAATAGCCAGCATTCTCTTAGATCTGCAGTTGGGCTCAACGCACTCAAGCCTTAG[C/G]A CAATCTTCTTTGTAGTTTTAGCCTTTTCCGGAAAATCGGCTTAGTTTGCCCACCATAGCCACTCTGCT TCCTGTCATAACGCCGCTTTCCCTGGGCGTACAGAGAATCCTTGCCCTT
WI- 10854b 152	152 GT	i	TTCCACAAAAACTTCCCTGGGCCGGGTGACTAAGATGAGAAGTGGGAGAACTGGATAGTTTAATAA ATGTTTATATTTTACTTTAAAGCGAAGTTGAAACACGAAGACGATAGTTAACGTCTGGTAAGTTTAT ACGGTGTGCGAGGCAACA(G/T)GGAGAGGTACGGGAATAGTTCTACTTCCTTGTTTTTATTCTTGTG TTTTAGACACAGGGTCTGCTGTTTG
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WI-9826b	127 GA	¥	1.	GGCAGAGAAGATCAGAAGTGTTGAA
				AATTITATATGTGAAGGGTTAGCAAACTATGGCCCACAGGCCCATTCTAGCCATGCCTATTTTTTGTG
				TGCCTGATGGCTGTTTGGTGTTTTGCACGCAGTTGAGCCATTGTGACAGAGGC1G11[A1]1GGCC11
				AAAGCCAAAAAAAAAATTTACTCTCTGGCCTTGACGGGAAAGTTGCTGATTCTAGATATTTAAAG
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				TGTTTTAATAGCTGCTGAAAAAAAACCTATTTTAAAAAAAA
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		ATTGTTTTCTT	GTAATACCTGT	ATTGTTTICTT GTAATACCTGT ATCTAACCATTAAACAAGCTTTTAAAATCCTTCGGTAACTCCCTTTATTAAAATTGTTTTCTTGACAT
WI-8172	136 C	136 C G GACA	AAAGGTAC	AIC/G AGTACCTTTACAGGTATTACATTTCTCTTCACCGTTTACA
		TGAAATAAAA		AGCAGGGTTTGAAATTGATCCCTTATTTACATGAAATAAAAACAATTTCTGTTGC[G/A]GCAGGTT
		ACAATTTCTGT	TGTGTTGAAAT	ACAATTTCTGT TGTGTTGAAAT TGATTTCAACACAGTTGAATCTGTAAAAACCAAAGCTCGTTTCTGATGCAGGACAAATATCCACAAT
WI-8183	56 G	56 G A TGC	CAAACCTGC	ATTTAAAACTGCAAGCACCATGC
				GCTTTATTGGGATTGCAAGCGTTACAAGGTTAAAGACAAAACCCAAGCATGGGATTTTGCCGGAAAT
WI-14149	83 CT			ATTAGCGTTAAAGGAGIC/IJTGAGTTGAGTCAAACACGGG
		AGGTAGTGGA	CAGGAAGCCTG	AGGTAGTGGA CAGGAAGCCTG TCAACAATGACACTGTGTAACAGCACAGGGAAGAGGGIAGIGGAGIGAGIGAGGAGGAAGGA
WI-8712	44 GAIG	AG	ACCATCTC	TTCCTTAACCAGCAGAGCCCCAGCAACCTAGAAGCGCCTCACCTAGCCTCTIAAI

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WI-8833	5. A	TCTTCCATGCC CCT	CCTCACACATT ATAGGGGCA	CTCCGGCCTCTTAAAGCTCTCTGTAGACTGTCTTTCCATGCCATTCTCTG[A/IJIGCCCCTATAATGT GTGAGGGTATTACAATAGTCCCTATTCAAACTGCCTTGTCATAAAAGGTCAGCTATGT
				ATTITITAGCCATGTTGGTAAAAGTTCATTTTCAGTACATGGGTAACACCCAGGCCCTTTCCC(A/G)T
				TATATCCAGGTATGCTACAAGTTCTTTAACTCTTATCAGAAGTTATTATTACTGTTTCCTTAGAGAG
WI-8377	63 A G	::		GCTACCAGGCTAAAATTCACTTAGTTTGGTTTGTCTAATGTCCTCATTATTTTATCCTGAAGCTCGTG
		GGGACTTAAC	CAAACAGCCA	GAGGGACTTAACCTTTGGCCT[A/G]CCTGCTGTTTGGCTCTGCGCTTGCTTTTTGGTTTCTT
WI-8850	21 A	A G CTT GGCCT	GGCAGG	ICICI I CIACI GGI CI I I GCCAGCCACCI A GCI
		CCCGGGCATTG	AGTCTTCCTGA	CCCGGGCATTG AGTCTTCCTGA ACTTTTCTTGAGCTGAGC
WI-8853	. 29 C	79 CT AGGATA	GCCTTCCAT	CATTGAGGATA[C/T]ATGGAAGGCTCAGGAAGACTTCATTCTCAA
				AGGGTGACTGGAATCACAGGCACAGACTGAGGAAGACAGTCATGGTCGAACA[A/G]ACAACATGCT
WI-8865b	52 A G	 5		TCGGACTTACCAAAGGGAGAGTCGAGCTTTCCATATAAA
		GGAAGACAGT	GGTAAGTCCGA	raagtooga agggtgactggaatcacaggcacagactgaggaagacagtcat/c)ggtcgaacaaaaaaacaggt
WI-8865a	42 T C	CA	AGCATGTTG	TCGGACTTACCAAAGGGAGAGTCGAGCTTTCCATATAAA
WI-8895	32 A		•	GTGCCACAAACCTGGACACCAACCAACAGAAT[A/C]CTCCCGTCCTTTGAAATTTCCATTAAGAGCA CAATGGGGGTAATTATACCAGGGATGCTCCAATCGCTCTTTC
				CCTTTTAAAGTCACAGTCAACTCGACTGTGGACTGATATATTTGTGAAATATAAAAACTCTTTTCC
				AAGGCTCCCATGCTTGGATGTCACA[G/C]TTATGTCAAGTTAATATAAACATTTCTAAGTGCTCACTC
				TCAACTTCTGTGTTATCTTGCCATGGTCCAGTAACAGTTCACACGGCAGACCACAAGTTGTGTAGCAC
WI-8456	93 6		:	TGGCATAGACGAGGGCTTCTCAAACTCCCGTCTGCGTCTCAGTCACCCAC
				TTTCATCATCAAAAGTTTTCTTTCCATAGAAGAATGGTAATGTTGTATCAGTGCATATTCTATGGAAA
				ATTCATATCTCAAGTAACTAGCCTAGAAATCAGAGACAGCACTATGTCAAGCTAGTATACAAGGTCA
				AAGACACAATGCTGCCAATGCA[A/G]TTAGTATATAGAAATAATACGCAGCTGTTAGAAAAGTCT
WI-8496b	157 A		1	GTGGCCAAGTGGGATAAAACAGTAGCAGTGCAC
				TTTCATCATCAAAAGTTTTCTTTCCATAGAAGAATGGTAAT[G/A]TTGTATCAGTGCATATTCTATGG
				AAAATTCATATCTCAAGTAACTAGCCTAGAAATCAGAGACAGCACTATGTCAAGCTAGTATACAAG
				GTCAAAGACACAATGCTGCCAATGCAATTAGTATATAGAAATAATACGCAGCTGTTAGAAAAAGTC
WI-8496	41GA	Α	:	TGTGGCCAAGTGGGATAAAACAGTAGCAGTGCAC
		GAAG		CTGCAGGTCTATGTGCAGGAAGGCCAGC(A/G)TCCCCTCCTGCCGTTGTCACCCACATCCACAGAGCA
WI-14153	-	28'A'G'GCCAGC	GGGGA	GCCCTAGTGCCAGGTGCAGCGCACTGCCACGGCACACGGGAACAGGACCCATGCTGC

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		TGGAAAAGGG	TIGACCIGGIA	TCATGTATTACTTTCTGGAAAAGGGTTAAACTCAAATATC[C/T]GAAATACTTTCATTATACCAGGT
WI-12108				CAAGAAAAATGCCACAGCAGAAAATTTATTTTAA
	<u> </u>		GGGTATAACAG	GGGTATAACAG CAGGCAAACGTCCACAAAGGTCACAGGCA[G/A]CGTACATACGGTTCTGTTATACCCCATATATAC
WI-5989	29	CCACAAAGGT	AACCGTATGTA CG	AACCGTATGTA CCCTTCATGTCCTAAAGAAGACATTTTCTCTTAGAGATTTTCATTTTAGTGTATCTTTAAAAAAAA
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			GGAGAGATGAC	GGAGAGATGACITTITIATOTIGTCAGGCAGCCAGCTOTGACTI[A/I]CTCTCTGTTTTTATGAGGGGCTCTGGAAAATTAGAC
WI-12018	31		AGAAACAGAG	AGTGAAGCATGTTGCAG
				TTITICGITTGITTAATGATCCGAATGCTTGAGAAGAAACCCTGGCCTCGCTGCCTC(A/G)GCCTTTT
		TGGCCTCGCTG AGGGATCAAA	AGGGATCAAA	CTCTTTGATCCCTGAGTTGCTGAGATTAAAGATGAGGTCCCAAATGAGAGCTACCAAGATGTGTAGTCG
WI-14162	57	A G CCTC	GAGAAAAGGC	AGOGG
		CATGCCCTTTA		AGCATGTAAGGAGCAGTTTTATTTGATTGGTATATTCAGGTTTCTAACCAGCTGAAAAATTCAAATA
		AGGATTAAGT	тстттстсттт	CATGCCCTTTAAGGATTAAGTTTAA[A/G]CCACACTACCAAAAGAGAAAAGATTTATATGATCACAT
WI-15407	92 A G TT		TGGTAGTGTGG	ATAAGCAATGGAATCAGCA
		GTTGAGTATTT		
		СТСТВСТСАТ	GGGAAGGTCTG	GTTCTGCTCAT GGGAAGGTCTG TCTGATGTCATTTATTGGCACAAAAATTATTCTGATACAACATGGIGICIAGACATGGTGTCTAAAAATTATAAAAAAAAAA
WI-12319	_	109 T C AATT	GTACATATTGG	GTACATATIGG TACTTTGTGCATTTAGTTGAGTATTTGTTCTGCTCALAALI[]/CJCCAALATGTACCAGACCTTCCC
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000	(AAGCAATT		CTGACAGACTTCAAAAGCAATTCAC[G/A]CTTCCAGAATACAAAGTAC11AA1ACA1A1111UAAAU CTGATAGCATTCAAAACAAAGTTAGCGTTTTTGTAAATCAAATTTGATAACCCGACTAAAAAT
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WI-12361	63 C T	<u> </u>		TI AAATI I CCACACI GAAGATI CI GGAAGTI GGGGGGGGGGATI ATAGGTAGACCTGAGGGGTCTGTTACCAAATTTACAAAAGTGGAACAGTTGGAAGGTACTTATAGGTAGACCTGAGGGGTCTGTTACC
				ATACTGGTTTAATCCATGTCAAATGTAGTTTACAAAGGGAAAAGGACAAGTACCTTTGTATAGAATAT
		CAGACACAGC	GACCCTCCCGT	ACAGACACAGCATCACACCA[C/T]AGGGCCCACGGGAGGGTCGGGGGAGACGACACTTTTCCCCTGGG
WI-11305		87 CT ATCACACCA	3333	AAAGG
		GGGAGGAAAA		ATTITTATATGAAGGTTTTCTGGTGAAATCTTTTAAGCAGGGAGGAAAATCCAATAAATTTTTTAAL
		TCCAATAAAT	CATTGGGGAAT	TCCAATAAAT CATTGGGGAAT AGJAAGGTTTAGCTATTCCCCAATGCTATTTAATACAATTGAGGTTAGGACGTTAAGTCTTATCAGA
WI-11321		67 A G TTTT	AGCTAAACCTT	AGCTAAACCTT CTGTGTACTGGAGCCCCG
		×	ATCAAGCTTTG	ATCAAGCTTTG AGCATACTGCATCTCCTTTATGGATAAATCATGTGCCCCA(C/G)AGAGCCCCAAAGCTTGATGACAT
WI-11324		40 C G TGTGCCCCA	GGGCTCT	TCTGTAAAGTTACACAAATGTATCTGAAGAAGTTATCTGTTCTTGTCC

				TGACACATGGTTTCTGTTTTCCAGAAGGAGAGAGGAGGAGTCATCTACATAGCACACACA
WI- 11352a	69 T C	ATAGTGGAAA G	GACCICICGIA	AG[1/C]GCTAAGTGTCCTACGAGAGGTCAGATCATAGAAAAAAAAA
WI-11371	84 (CAGCTTGGAG ATTCTGATTCA 84 CT G	CAGCTTGGAG ATTCTGATTCA GCCCCGCTGA GCAC	TTAGCCCATGCTGTCATTTGCAATCACCTGTGAAACCTATGAAAACTATACCTGCCCAGGCTCAGCTT GGAGATTCTGATTCAG[C//]GTGCTCAGGCGGGGCTGGACATCCATGTTTGGGAAGAGTTGCGCGGGT GATTTCGATGCGTATAT
WI-11385	75	ACAGAAGACT TTCATATTCTT	ACAGAAGACT GATTCTATTCT TTCATATTCTT AGTCATGGTCA GTTTTT TATTTTT	CTTAAAGCATTATAGTTTGGCCTGATGGTGGACACAGAAGACTTTCATATTCTTGTTTTTAAAAGTC TCTTCAG[T/C]AGGAAAAAAGGCTACAGATTTAAAAATATGACCATGACTAGAATAGAATCAGC
WI-11388	88	TGTTTGAAATT TG ACACGTAACT CA CA AAGTTC	TGCCTTGTATC CAAGTTAAAAT T	TGTTTGAAATT TGCCTTGTATC ACACGTAACT CAAGTTAGACTAGCTCAGTTGGTTAGAGTGTGGAGCTCATAAAAAATTAAAGAATGAAT
WI-11392	55	GGTTATGTGTT CTTGAACTTTA	GGTTATGTGTT GTACATTCACG CTTGAACTTTA TGTTTTGTAAA ATAAATAC AAG	TTCTATCATTCCATTAAAATGGGCAGGTTATGTTCTTGAACTTTAATAAATA
WI-11396	52 /	<u>Σ</u> Ε		AAAGAATAAGATGGCATTTGTTCAGTTAATTTTGTTTTTGAAATGGTGTTTT[AVT]GATGGGTGAATA TGAAAATAAGCTTACCTCATCCCACTCTAAAAGGTAGTTGGTGATTTTGAACCGTTGTCAAT
WI-11441	100 (TCCCCACCAAC	TCCCCACCAAC TGCCAGGCCT CAGC TATTTG	CTGTCAGTCTTTCCCAACTAAACCGTGAGTTCCAGTATGTCTGGCAGCACGTCTGTCT
WI-11466	26 C T	GTTTATTGT TGAGAAGCCA TAAAAATGA	GTTTATTGTTA TGAGAAGCCA TAAAAATGAC	ACTITIGAGAAGCCATTIATITIGCAGIC/IJCTTCAGTCCAAAAAAAGTCAACATTITCAGAATTITIT TATATAAGTTGTAGGTCATTITTATAACAATAAACTITICTATTATCTATTTATCTCTCACATACAT
WI-13364	35 /	35 A G		TITITCTITIGECCTTTTTTTTTTAGTAGAAGC/A/G GGAACAGTTGTCAATACTACCTTCTGTTGG TCCCCTGTTAGACAACATACCTTTCTTTGAAATGTAAAATGTCA
WI-11276	41,	SCAGOCAGG SCAGAC	TGTACTGAGGA GCCGGTG	TGTACTGAGGA AGGCAACACTGCTTTATTAGGCCGGGCAGCCAGGAGCAGACIA/GICACCGGCTCCTCAGTACACATT GCCGGTG CCCCCACCCTGCCTCGGTGCTCAGGGCTGGGCATGGAGGGGGGCAGCGTAGGTCTGGAA
WI-12210	76,	AAA TGC	TTGC TTCC	ATTGGAAACAACTTAATAATTTGCATCTCTACATATAGAAAGCTGCTTTGAATAACTGGGAAAACAA CTATTGCAT[A/G]GGAAAACATATGCAAAACTAGCATCATTGTCTCTAGA
WI- 14186b	88	88 A G	i	AATGGTCTGGTTTTATTGAGAAGCTGTTGGTCATTTGATGGAAAGACACATACGGTACAAAATTACA GGTGGTTTAGTTCATTACATG[A/G]TACAAATCATTAGAGTCTTTACAAGTCATTAGAGTCTTTGGAT TTT

:		GGTCATTTGAT AACTAAACCA		AATGGTCTGGTTTTATTGAGAAGCTGTTGGTCATTTGATGGAAAGACACATA(C/T)GGTACAAAATT
Wi- 14186a	52 CT	GGAAAGACAC	GGAAAGACAC CCTGTAATTII	ACAGGTGGTTTAGTTCATACATGATACAATCATAGAGTCTTTACAAGTCATTAGAGTCTTTT
WI-12234	66 A	GAGAACACTT	GGACCTATCAG	ATTITITITIGECTATAGGTCAGTGGTTCTAAAACTTGAGCTTGCAAGAGAACACTTGTGGGGCTT[A]
WI-12345	37 (GTGCCAGGAA A AAAGAGGAA	TTGCAGAGGGG TTCAGG	TTGCAGAGGG GGAACAGACCTGATCCACGTGGCAGGAAAAAGAGGAAIC/AJCCTGAACCCTCTGCAAGTATTCTCT TTCAGG TTCCTGACCAGCTGGGCTTGCGCACTTTGTGAAAA
WI-13416	71 (AAATTTTGG AAGTTTTCAG CAAAA	AGTGTTTATAG TTCAATGAATA ATTTCAA	AAATTITTGG AGTGTTTATAG AAGTITTCAG TTCAATGAATA GAAAAGGCTGTAATTITTATTITTCAAATTITTGGAAGTTTTTCAGAAAAAAAAAA
WI 10210	9 7	TATTCCCAAG	TTATTCCCAAG TGTTTAAATAT TATAATTTTA GTTTGGGTCCT	TTTGAAAAGATGCTGAATTTATTCCCAAGTATAATTTTAAAAAGCT[G/A]TTTAGGACCCAAACATA TTTAAAACATCTCTTACACATACAGAATTTCAGTTTACAAATATTCCAGAAGGCATTTTCTTAAGCAG
WI-12086	72/0	CCGGGAAAAC	GGAGTCTTCGG	CCGGGAAAAC GGAGTCTTCGG GATTTCCGAGAGGCAAAGAGTGTGGACACTGTTTACAACAAAACGTTTCCGGGAAAACTTGCCGGGAAAACTTGCGGGAAAACTTGCAAAAACTTGCAAAAAAACTTGAAAAAAAA
WI-11549	102	GGCATAAAGT TCATAATATTC	GGAAAGTCTGT ACAAATCCCC	GGCATAAAGT TCATAATATTC GGAAAAGTCTGT ATGTCTTCACAGGTTGTATTTTGTTAAGAGTTTGTCTAAATTTTCATATTTTATTGGCATAAAAGT TTTTATG ACAAATCCCC TCATAATATTCTTTTATGATCTTTTAAAATATCTGT/GJGGGGATTTGTACAGACTTTCCTC
WI-11585	797	TGGGTTTGCAA T C AAACAAAA	()	TTAGAAGGAAAGAAATAAAACACGGTAATGGGAAAATCAGTTCAGAGGTAGGAAGGA
WI-11604	9 8 9	 		TTAGTTGGTTTCCTGAAACTTTATGCTGTTTATTTTTAACCAATAGGATGTTCCAGTTACCAGCATTTT G/CJAGAACTAGGGACTTTCCATGAAATAATTAAGAGCTAAGGAATTCTGACGCTCACCATTTTTC TTTGTTACTCTGCAGTT
WI- 11614c	108 C	- Y	:	CAAAATCAAAAATTGAGGGGAAAGAACAGAAGTAAAATCCAGAAGACTCAGCTGCTTGAGGCAT GTTCCCACCCTGGACTTGCCAACTTTCACTGTGAAACTGCAA[C/A]ATATTAAGTATTCGTCAGCTAC GGACTTCGT
Wl- 11614a	7 09	CCAGAAGACT A G CAGCTGCTTG	AGGGTGGGAAC ATGCC	CAAAATCAAAAATTGAGGAGGCAAAGAAGAAGTAAAATCCAGAAGACGCTGCTTG A/G]GG GGTGGGAAC CATGTTCCCACCCTGGACTTGCCAACTTTCACTGTGAAACTGCAACATATTAAGTATTCGTCAGCTAC GCC GGACTTCGT
WI- 11626b	83 -	83 T C	:	TTGATTITACTAAGGTCTTCCACTGGAACATGAAGGTAGGGATAAGTGTACAGGATAATATCCAG ATATTITTAAAATAAA[7/C]TACTTAATAATAAGAAATTAGCCATACCACATTGTTCCATTTGCTAC AAGAACAAATTGGCAATGA

174		TCCACTGGAA		GTGGTATGGCT TTGATTTTACTAAGGTCTTCCACTGGAACATGAAGGTAG[G/A]GATAAGTGTACAGGATAATATACT
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200	3		Carrocar	ANGARA I LUCIONARI LUCIONA
WI-11627	23	23 T C ATTGTCCTC	CATCTCAAG	ATTGTCCTC CATCTCAAG AGATGAGAAATACTGATGTTTTTTTTTGTCTGCTTTCCATTCGCATGTCAAGTCAAGTCCATCCA
		GGACTTAAAA		AGAAACTTGCT TCAGAAATGTTGCAAGCAAATACTATTTGTAAAGGTGGACTTAAAAAGATCTGCTTATCCT(A/G)TA
		AGATCTGCTTA	AAATATTTAT	AGATCTGCTTA AAATATTTTAT TATCCACATAACTCTAGTGTTACATAAAATATTTAGCAAGTTTCTGTGACAGGTGCTCAGTAÀACÁC
WI-11636	61	61 A G TCCT	GTAACACT	TITGACTCCTTTTTGGTA
		ATTGCTCATCT	ATTGCTCATCT GACCCAGCAA	GTACCATTTCTTATGGTGGCAAATAAGCAAACTGTGAGTAAACGAGGGCAGCTGAATAAATTTACAG
		TACTCTGACCA	TACTCTGACCA AAAGAATGAT	TATACAATATTAGAGAATATTATGTTGCAATTGCTCATCTTACTCTGACCAT(C/G)ATAATCATTCTT
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×				TTTTTATTGAATTCCAAATGTAGCAAAATCATTAAAACAAATTATAAAAGGGACAGAAAAATTAAG
14323b	86 C A	A		AATCAAACATCATTCTGGACJC/AJATGGGAACCTTGAAAAGGCATGGCAGTGGAGACCAGTAACTA
-im		ACAGAAAAAT	GCCTTTTCAAG	TITITATIGAATICCAAATGTAGCAAAATCATTAAAACAAATTATAAAAGGGACAGAAAAATTAAG
14323a	78	78 T C ACATCA	GTTCCCAT	AATCAAACATCA[T/C]TCTGGACCATGGGAACCTTGAAAAGGCATGGCAGTGGAGACCAGTAACTA
		AGATAATGAA		T () T & T T T T T T T T T T T T T T T T T
<u>*</u>		ACATCTGCGA	GATGAGGTGAT	GATGAGGTGAT AAAATTGACAAATCAACTAGCTTGCTTTTGTCGTTTGGAAGACTACCALIALICAAALITALIALIALI
15389b	104	104 G A AAA	TCCCACACTT	AATACACTCATCCAGATAATGAAACATCTGCGAAAA(G/A)AAGTGTGGGAATCACCTCATCTGTGC

WI- 15389a	33 G A CT	тсаастав гесттттв	AA AA	AAAATTGACAAATCAACTAGCTTGCTTTTTGTQ(G/AJTTTGGAAGACTACCATTATTCAAATTATT ATGTAATACACTCATCCAGATAATGAAACATCTGCGAAAAGAAGAGGGGAATCACCTCATCTGTGC
		TGCTTCATTTT CAT	CATAATTCACC	CATAATTCACC TGTAATCTGCTTACAGTCCTTTGCAAAGACAGACATATGTTTTTGCATAAAGATATAAATTGCTTCATAAAGTTCATA TTTAAACTAATTTAGTTT[T/C]TTTAAATTATGAACTTTTGGTGAATTATGAACTTTTGGTGAATTATGAACTGTACCAAAC
WI-15747	88 T	CAGTGTTT	TAATTT	2
 				AAGAAAAGCACATACATTTCCAGAATTTTGGAAAAGTTCACTGTGCAGCAGCTGAATGGCAGATGGT CTCTGCGATGAGTTCCTTCTCGTTAAGTGCTGGATATACTTGGCTTGCAC(C/I)GGACACCTTTACG
13752b	117 C	; +		GAGGGATTCCGGACAACT
				AAGAAAAGCACATACATTTCCAGAATTTTGGAAAAGTTCACTCTGCAGCAGCTGAATGGCAGATGGT
-M-	1	CCTTCTCGTTA	CCCTCCGTAAA	COTTCTCETTA COCTCOGTADA CTCTGCGATGAGTTCCTTCTCGTTAAGTGCTGGATATACT/CJTGGCTTGCACCGGACACCTTTACG
13752a	106	106 I C AGIGCIGGA	Agglaloc	מאממאו וכסממאסיי
		CCCAATCAAA	TCCAGATTTCT	AATCATTTAATGAATGTTCCAAACACACCCTTCACTGGGCTACAGGTAAATTTCACTGGGATGGAAG
WI-14339		102 T G TTAC	GGAAACCG	CAGATGAACCACCCAATCAAACAGTACATGATTACT/GJCGGTTTCCAGAAATCTGGATAC
			AATCAGGAAA	TGGATGGATGGATGAGGCCACCTGTGTTCAACAAAAACACGTAATGGAACTTCATGCAGCTTTAGAT
		ਹ	GATAAGCACA	TTCCTTTGCCCAGCTAGGAGCTTGTGTATGGTGCTGAACAAAACTGAA(C/TJGC1G1GC11A1C111C)
WI-13744		115 CT AAAACIGAA	3	CIGALICI
WI-14061	0 89	<u> </u>		CCTTTGACTATATTGTTTTTCCAAAAATAGGACTATGTGTAGAAGAGAGAG
		ACCUTTICATO	TGATACTTGGC	TGATACTTGGC AGGTTGGATTAACACTACCACTGAATATACTGAATTAACTATTCAACCTTTCATCATTCAACTTTCAACTTTCATCA
WI-15719		69 A C CATTCAGC	ATT	C(A/C)AATTTAAAACTCTTGCCAAGTATCATGAACTTACGAAGAGAGAG
		ფ :		
WI-13810	106 T	A LACA I CCAA	TGCTGCTAACT	GGTATTAATTGGTTCTCTAAATCGATACATCCAAAACTTTT/CJAGTTAGCAGCAAGCATCATTCTTC
		\vdash	ATTITATICAC GITCITIGATA	
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15736a	27 GT	T CACA	E	TATCAAAGAACAATATACAATAGAGATTIGAAIIICICAAIAGCAIIGGAAGGIAIIICCAIAAAIA
×-			1-	TCAAAACTGCACACTATAAAAGTGCTTTAAAATGCAGCAGCAGGAGATGTGAAGACACAAATGAAC
13785d	72 G	A	:	AAGTGCĮG/AĮTAGTGACACATAGCTGTCACACACACAGTG
-iv				TCAAAACTGCACACTATAAAAGTGCTTTAAAATGCAGCAGCAGGAGATGTGAAGAC[A/C]CAAATG
13785c	56 A	56 A C		AACAAGTGCGTAGTGACACATAGCTGTCACAACACAGTG

WI-	0	;	į	TCAAAACTGCACACTATAAAAGTGCTTTAAAATGCAGCAG[C/G]AGGAGATGTGGAAAAGTGCAAAATGCAAAAAGTGCAGTAGTGACACATAGCTGTCACAACACAGTG
	2		теттетсасав	STATES AGACACA AGA AGA AGA AGA AGA AGA AGA AGA
Wi- 13785a	27 T	- 5	ACTATAAAAG CTATGTGTCAC TGCTT	TCAAAACTGCACACTATAAAAAGTGCTTTCAAAAATGCAGCAGCAGGAGATGTGAAAAAAAA
				TITE AT A CALL COLOR OF THE CALL CALL CALL CALL CALL CALL CALL CAL
WI-13793	88 C	C G ATAGG	GGGCAGGAGGA TTTGTTACT	TCAGCCTAGAT GGGCAGAGGA AGAAACCAAGTATATATAGGCAAATAAAAATAGTITTTACCCCATAAATCTATGACTTG
		TTCCTCACCCT	AGAATGGGCTC	TTCCTCACCCT AGAATGGGCTC TAGTCTCCTACAATTCCTTCAATCCATTTTCTTCCTCACCCTTTTCTTC
WI-13794	52 A	52 A G TTTCTTTCTC	TTAACCTTGTA	TTAACCTTGTA GCCCATTCTTCAAACAAAAAAAAAAAAA
		CTTTGAACCAT	CTTTGAACCAT CTCAGCTTCTT	TCATTTAAGTGCACTTTGAACCATGTGTAGACTGC[A/G]GGCACTTTAGAAAGAAGCTGAGACTGAA
WI-15729	35 A	G GTGTAGACTGC	TCTAAAGTGCC	A G GTGTAGACTGC TCTAAAGTGCC AAGTCTGTCTTGACTTCCAAGGAAGGGTAAGTCCCTGTTTGCAGCCCCGGGGCCTGCTCATTGTTA
		TGAGGTTTTTC		GTCCTTTGCACAAGTCTCCCAACTGGTTTGGAGTTTTCCCTTCTGAGGTTTTTCACCCTATTCTTCGAA
		ACCETATICITE TITITICICCC		TAGACCCTGGGGAGAAAAAACACATGTGTAAGTGGCTCAGGACATGAGGCAGGC
WI-13424	66 GAC	AC	AGGGTCTA	GCTGGCTAAGCGGCTTC
		TCTTATAAAA	CAAGCTGAATC	CAAGCTGAATC AACTGTCTTATAAAAGGTCAGAGGCAATT[T/C]GAGATCCCAGATTCAGCTTGTCTCATAAAAGAT
WI-14065	Z9 T		TGGGATCTC	TCAACTTCAAGTAGCACAATTTCTTGTCTGCTTTTAATCCTGAACATTCTTGAAGCACGAA
			AAGGGAATCA	TGCCATGTTCTTTCACTCATCA[G/C]CCTTCTGATTTTGATTCCCTTTCTGCTCTGTAATTTTTTTCTTC
		ССАТЕТТСТТ	GCCATGTTCTT AAATCAGAAG	TTCCCTTTTTAGGGCCTAGTCTGTTTAGAAATTCTGGTTTTTGAGAGTAGTGAGCCCTTTTACTTTAGAAATTCTTTTTGAGAGTAGTGAGCCCTTTTACTTTTAGAAATTCTTTTTTTT
WI-13446	22 G	22 G C T CACT CAT CA	g	CTGACTGCCTAATT
		TGAGCACATA	сстастетстс	TCACACAAAGGCATTTGGAAATGTCACCTTACACATGGTGAGCACATATGGGTGCC[AVC]GCCCGAG
WI-13725		56 A C TGGGTGCC	3333	ACAGCAGGATAAGTTTCACAAAACTTGACCAGGCAGGTTAGAAGCAAGGCATGGTTCAGGATG
				CAAATGTTTTATGAAGAGACTCCGAACAAATAAAGGCTTTCAAAAAGGGGGGGTAAAGGGGGTGAGG
<u>*</u>				AAAGCATGTGAGAAAACTGTAAACCTGTAAACAATACTAA[T/C]GGGTTCTTTGAACAAATAGTTT
15702d	107 T C	: 0	-	TGA
				CAAATGTTTTATGAAGAGACTCCGAACAAATAAAGGCTTTCAAAAAGGGGGGGTAAAGGGGGTTGAGG
Wi-	*******			AAAGCATGTGAGAGAAACTGTAACCCTGTAAACAA[T/C]ACTAATGGGTTCTTTGAACAAATAGTT
15702c	101 T	 O		TGA
				CAAATGTTTTATGAAGAGACTCCGAACAAATAAAGGCTTTCAAAAAGGGGGGGTAAAGGGGGTGAGG
-i×				AAAGCATGTGAGAGAAACTGTAAC[C/T]CTGTAAACAATACTAATGGGTTCTTGAACAAATAGTT
15702b	90 C	90 C T	•••	TGA

		AACAAAATAA		CAAATGTTTTATGAAGAGACTCCGAACAAAATAAAGGCTTTCAAAAAG[G/C]GGGGTAAAAGGGTG
×.			CCTCACCCCTT	AGGAAAGCATGTGAGAGAAACTGTAACCCTGTAAACAATACTAATGGGTTCTTTGAACAAATAGTTT
15702a	48 G	48 G C AAAG	TACCCC	TGA
				TITITITITIATGGATGCACTGTTACATGTTTATTTAGCGAAGGTGACTTGGAAAAGGAGATTCACAT
WI- 13831b	113 T	- 1	!	TATAAAACATGGCTCA
				TITITITITITATGGATGCACTGTTACATGTTTATTTAGCGAAGGTGACTTGGAAAA(G/C)GAGATTCA
-M-				CATACTTCCACTGTATCCTCCGGGTAAGTTTTCCTTCTTCTGTAGATGTCTCCATGTTACAGTCAAC
13831a	56 G		:	TATAAAACATGGCTCA
	 			TGATTGAGCTTAGAAAGGAAGTCATGTTGAAATCAGAGAGAG
				CCATTAAGCATGCTGTGAATGCAAAGGAAAAGCTTAAAAAATTTTTAAGGGTGACTCCAGTAAA
WI-13806	62 G	A A		CAT
	_			CACATTITCAGCAAACAAATCGAGGTGCAAACAGGGTTTATTTCACATTAATATTAACTGGATTT
WI-14372	86 A	g		TTTGTCAAATAAATAGGGAJA/GJTTCTCTTTAAATAACCATCTCCTCACTTCATGGCCAGT
				AGGCTGTTTTTGAGGCCTGAGGACCCCAACATGACAACGTAAGACTGTAACCATGGTCATGTGAGTT
				ATGAGCTAGGAACCCTGGACGAAACCA[A/G]CACATATACAATCATCTCCCACCTCCCAACGCCTTT
WI-14373	95	A G	1	ACTITCACAGCCTCTGCA
		AAAGAAGTAA		
		ATTAGGAAGA	TGTGTGCATGT	TGTGTGCATGT AGAAACCGAGAACTCAAAGAACCACATGGTGTATCAAAGAAGTAAT LAGGAAGAAGAAGAAGTAA LAGGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAG
WI-14078	61	CT GCAAGA	CTCTTACTGC	CAGTAAGAGACATGCACACAAATCGAAACAAGGGCATGGAGGAAGGA
		AGACTTGAGA	GCCTACTGGAC	
		GCTTAAAACA	CTCTAAACTAC	GCTTAAAACA CTCTAAACTAC TTGCTACATAACACATTACTCCAGACTTGAGAGCTTAAAACAACACI(C/1)A111G11A111CACAG
WI-14083	\perp	47 CT ACACT	TGA	CTCAGTAGTTTAGAGGTCCAGTAGGCTTGGCTGAGTTGTTTGCTTAAAGGTCTTACAAGGCCA
		CATTTATTTC		TGCATTTATTTTCATGTAAGAAAAAAAAAAAAAAAAAAA
		ATGTGTAAGA	ATGTGTAAGA CAGTCATGTTC	ACGGCTCAGCACGAGGCTAAAGTCAGAAGTGAGAGAAACAAAATAGCATGTTGATTTAAGTGAAA
WI-14085		31 A G AGAAAA	ACGTGCTAGTT	ACGTGCTAGTT TAACAGAACAGGAGGCCTTT
		AATAAAACTT	GGGTTCTGAGG	GGGTTCTGAGG GTCAAAGGTTGGCAAATTTTATTTCCACTTATCAAGAACTTACAAAATATTTTTGTTTCATTTCTAAA
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		GGAGGGAGAT	AGCTGTAGTCG	TTGTTTTTATTTGGGGAGAATGAAGGAGGAGGGAGATTTTAGACTGAATC[A/G]TTCTAGAGTTTT
		TTTAGACTGA	TCAAATACTCT	TCAAATACTCT GACGACTACAGCTCCTCTCTCTTTGTACTACGGAGACCCTGCTTATAGCCCCCAACAGGAAATCCTCA
WI-15705	_	50 A GATC	AGAA	TCTGCGGTTGCCAGACAG

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WI-14379	102 C	102 CT CACC	GGGTTATGTCA ATCATCTGTTT CACC TGAGGTTGACA	ATCATCTGTTT TTTATGTGTGTTGTTGTGTGGGGTTATGTCACCCCTTTGTCAAACTCAAACAGATGATACT
WI-14102	22 C		:	TAAATAAAAACAAAAGCAGAAAAQC/AJCCCACCATTAACAAGAGGACACTGCAGAGGCTTATGTACA ACACGTGTCCCGCGAGGCTGGCGCAGGACTGCCACTCCCAAAATTTCTTTGGAGCAGAG
		CGCAGAGCTG		
WI-15937	24 A G A	CTGTATTTAAA GA	GCAGAGAICCA	CTGTATTTAAA GCAGAGACTCCA ACCGCAGAGCTGCTGTTTTAAAAQAGACTCTTCCCAGCACCCCCACCCCCCCCCC
		AAACTGAAAC		TGAAACTGAAACGTATTTCCTCCA[A/C]ACACCGTAGAAACTTAAAGGCCGCAAAAGACTCACACC
WI-15044	200	GTATTTCCTCC	GGCCTTTAAGT	ACCACCTAGCGGCGAAAAAAGGAAGTTTCAGGTGATACAAGATGTCCTGCCATCACACCTGAAGGAT
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				ATETITION GATOCCCOTTAACACATACAGAGAGAGAGAGAGAGAGAGAGAGAGAGA
WI-14124	92 A	 0		CACCAAAGCTCAGTCACTAC
4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0	GGTTTGACCTG	GGAATGGCATG	GGTTTGACCTG GGAATGGCATG GACAAAGAGGCAGTTTCTGTAGTTCCAGCAGGGCCAGGACAGTTATCAGAACGGGTTGGTT
C7141-IM	0 0	88 C I CATAGATITI GCCAC	3	GCALAGATITITITICACGATCACCATACACATCACCATACACATACACATACACATACACATACATACACATACATACATACACATACATACATACATACACACATACACACATACACACATACACACATACACACATACACACATACACACATACACACATACACACATACACACATACACACATACACACATACACACATACACACACATACACACATACACACACATACACACATACACACACATAC
		COTTICION	TGTTCTGTC	GTTTATTTATCTCACAGTTCTCACAGGTTACAAGTCTGACATGACATGACATGACATGACAAGAGACACAAGAGACTCTCACATGAAGAGACAAAAAAAA
WI-14136	120 G	120 G A ATGTCTTCACA TCTTTGGGC	2	AGAACAAGCTCTCTGGT
			CAGTATGTACA	
		TGTTGGCACCA	GTGACATAACA	TGTTGGCACCA GTGACATAACA TTGTTGTTGCCACCAGAAAGCT[C/TJATGTTCTATGTTATGTCACTGTACATACTGTAAACAAGACT
WI-14138	23 C	23 CT GAAAAGCT	TAGAACA	GCATTAATATTGTTTTCTTATGATTTGTTTCAATG
		TCCTTCAGTAG GCTCATTTCTT	GCTCATTTCTT	GGCAGGITTATTCATAATTTTCAAAACTTGGAAGCAACCAAGATGTCCTTCAGTAGTAGTATTCA
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WI-13551	74 G	74 G A GACAATC	TAATATT	AACCTTAAATGGATATTACT
				TITTITAAGAGTGTCCTTCACATCATITATATTGTATTGCACACAAACTTTTTAACTC[C/T]GTCAA
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15953b	59 C T	: -	•	COTCCC
		TTTTAAGAGTG TC	тсатствттст	TTTTTTAAGAGTGTCCTTCACATCAT[T/G]TATATTGTATTGCACACACAAACTTTTTAACTCCGTCAA
-i_		TCCTTCACATC	TCCTTCACATC TGTTGTTTTG	AAACAACAAGAACAGATGAATAAGGAAGCCCAGTGCTTTTTGAGATAGAAGCCTTCTTCAGAATCA
15953a	26 TIGAT	GAT	¥	OCTOOC

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			·	TGAATTCAATGGACAGTTTTGCCTCTGTTTTAGTGAAACCCTCACAAGCACTCTGGACCTCCTCAGGGCCTCCTCAGGGCCTTTAGGATTGGGCCTCCTCAGGGCCTTT
WI-14631	82 G A	A		GTCCTGA
		. (ATCACCACCGTGTCTAAGAACAACĮA/GJTCTTCATGTCCAACTCATATCCCCGGGACTTTGTCAACTG CAGTACACTTCCTGCATTGAACCTGGCTTCCTGGAGGGAAGCCTCCTAGAGGCCAGGTAAGGGGGGTGC
WI-6053	24 4	 5	:	AGCAGI GAGGGGGIAI AI CIGGGGGGGGGGGGGGGGG
	-	GCTCTCTGTCC	GACTTCTCCAC	GCTCTCTGTCC GACTTCTCCAC CAGAAACCTCTTCTGTATTAAGCTGATGCTAAAGTCAGAGCAGTCAAAGGCAAAGGAAAAGGAAAAAAAA
WI-15964	99 T	T A CTGGAGGTA	остсттвс	GGGAGGTAGTAAGCTCTCTGTCCCTGGAGGTA[T/A]GCAAGAGGGTGGAGAAGTCTTGGCAAG
				CAGCTAAAGGATCACTGCAGCTAAATACAGATAGAGAAGCAACAAAAGCCAGGCAAAATACCCATCAG
		AGCAGCTGGG	сссттсттс	AGACAGTGACAAGAGCAGCTGGGGGCACGGGGGAGGC[G/A]GAAGGAAGGAGAAGAAGGAAGGGGGAGGAG
WI-12075		103 G A GGCAC	тсттссттс	
		GGAGGTACGG	TCGAATGACCC	TCGAATGACCC TAATTTAAAAACACGCCCTTCCCACATAGTGCGTGAGGCATCTGCACATTTTCCTAGAAGGACATGA
WI-12179	96	96 G A TGGAGGTCA	TGTAGATGC	ATAGTGATGTGGAGGTACGGTGGAGGTCA[G/A]GCATCTACAGGGTCATTCGAGGAGGAACAG
		CAAGAATCAT	GGAGATATTGA	
		TCTCATTTAAA	TCTTTTCTGA	TCTCATTTAAA TCTTTTTCTGA CACAAATAGTGAAATTATCTGAGCAAGAATCATTCTCATTTAAAATTGT[C/G]AAATAAGTCAGAA
WI-14651	49 (СВАТТВТ	CITATIT	AAAGATCAAATATCTCCCCTGCTTCAAAAATGACACTCCCAATTTTCACAGGTAACCACTGTTA
WI-14666	105 T A	A	1	AATGTGGACTTTCAAACAAGGGTTTAAAACTAATCTAAT
				ATCTAGATGTCAGCAAATGGGCTGAGACTGT[C/T]TGTCTGGTAGATGCAGTGTTTGTATTTTATATCAGAGTC
WI-13473	31	C T		CLATTACAAAATTACAAAAATATCACTTTCACAAATGTTATATCACAAGTC
		AAAAGACTAC	TTGTGTTTTCA	
		AGATACAAGG	TCTCCTAAAAG	TCTCCTAAAAG AATTTAATAGCAGCTCTGTGTTGTGATTTTAAAGAACAAGATAAAATATGTCATTCAGCAGTCATTT
WI-13967	103/	103 A C AAATAAAA	គ	AAAAAATAAAAGACTACAGATACAAGGAAATAAAAAAAAA
		GCAGACACAC	TTAATTGTGTA	A A L A L T C T C C C C C C C C C C C C C C C C
14/1 44400		FO T ATTACAGGCT	AAACTCATTTG	TATTACAGGCT AAACTCATTTG TTAATATTTCAGCAAAGTTALGCAACAGGTTGAAAATTTACACATACTTATGGGATTTGTTGAATGA
Cott				TITIGIGITAAGAACAGCATTITGAAAATAAAACCTATCTGCCCATG[C/G]TTTACAGCCTTTTAAAT
WI-13683	47	 <u>0</u> 0	1	TTGTAATATTTATAGTCGTTTATGGTACATATTGATTGTC
M		·	CATTGAGATAA	CATTGAGATAA AGCACACTTAT ITAGAAAACTGATAAAAGCAACAACAACTTTTGGGGAAAAGCACCATGGCACGTCCTTTGTGCTA[C/T]
13910b	63	63 CT CGTCCT	CAC	GTGATAAGTGTGCTTTATCTCAATGAAGCAACCCCA
				ACATGGCAGATACAGAGCTGTC[G/AJTCTTGAAGACCACCACTGACCAGGAAATGCCACTTTTACAA
				AATCATCCCCCTTTTCATGATTGGAACAGTTTTCCTGACCGTCTGGGAGCGTTGAAGGGTGACCAGC
WI-14635		22 G A	:	ACATTTGCACATGCAAAA

WI-16002	59 7	GATAACATAA AATGATCATG	GCCATCTCCTC	CCAACATTTTAAAACCTATGACTGGTCATTGATAACATAAAATGATCATGAGAATTTCA[T/C]GTTA AAAGTCAAAGAGGAGATGGCTAATGCATGCTGGGCT
WI- 15361b	0 1 4	CCCACTTGAAC TCAAGTCATC		GTGGAATTITATTAAGCCATCAAAATTTCCTTCACACTCAATACTGTTGAACAACAAGATAACACAT CTTCTTGCTCATCCCACTTGAACTCAAGTCATCA(WGJTTTAGGCACAAAGGTTTTAGTTTTCTCGG GAAATCAAGTTTTAACCA
WI-14759	73.7	GCGTTTGACTT	ACACTGC	TGAGTTACAACAAATGAGCAACAAGTTAGAAAAATTGGTTTTATTCAAACTTCCTAGCGTTTGACTT GTGCGG[T/C]GTACTCAAATGGGGGGCAGTGTGGGACGGGGAGGGATTGCAACCAGAGTTCATACTG CAA
WI.10535	202	CTAGGAGGGTT GAGGTGTAGA A T TAT		TCCCTAACATTTATTTCAGGTGGTGACTAGGAGGGTTGAGGTGTAGATATĮA/IJCTTCCTCTTCTC GTGGAGCCTTACTGAAGACAGGCAGTCGCCATCTTGTGTTTATCAGCTGAGAAGGGCAGTCTCGCCATCTTAAAGACTGAGACTGCCCCC
Wi- 13805a	112	\ \	AAAGGCACAC CTCAGCCTGCC	TTCCATTCATTATGCTTGGCTTTACCAATTTTTATAGCTATTGGGAGGCAGGAAAGGGAATTTTGGC CCCAGAAACCATGAGATTTGGGTCAGAAAAGGCACACGGGGAAJGGGGTCAAGGCAGGCTGAG AGTCACATTTCCAGACCTC
WI-12340	!	18 T C		ACACAATATAATTCCATT[f/c]CGAGTGATTAAAACCTATTTGTTGTTTAGAACCAAACAAA
WI-14808	52	ACCCACCACA T A CTACCCTGT	9 E	GECATCACA GITAAGATT CTTTGAAACACTTTAAGCAAACAGTTAAAAAGTACCCACCACCACTGCTGT[T/A]AAAATCTTAAC ATTGTGATGCCTCTGCATCAATTTTTAGAAAAACAAAGAAAACAACTGAAGCCCCATGTA
WI-14816	29	A	;	AGTTAAAAAAATCGAGTCAGCATTTATT[AV]AAAAACTGGACACGCTTCTATATTGCAAGGCCTAT TCAAATGCATTTATTTTGTATCCCAAGCCCCTGAAACATGAAAAAATATTTACTAAAGGAATGTTG ATTACCAGCTACGACTTTC
WI- 12542c	71(71 GT	!	CCGTGTTTCATTGAAGGCTATTAGGCAAACTGAACATTTAAATGTCATCCATGTGAGGGCTCTAGATC ATG(G/T)TAGGTGATTGATACAAATACGATCCATAA
WI- 12542b	70(70 GT		CCGTGTTTCATTGAAGGCTATTAGGCAAACTGAACATTTAAATGTCATCCATGTGAGGGCTCTAGATC AT[G/T]GTAGGTGATTGATACAAATACGATCCATAA
WI- 12542a	45 (GCTATTAGGC AAACTGAACA CTTTAAA	TCTAGAGCCCT CACATGGAT	CCGTGTTTCATTGAAGGCTATTAGGCAAACTGAACATTTAAATGT[C/T]ATCCATGTGAGGGCTCTAGATCATGATGGTGATTGATACAAATACGATCCATAA
WI-12173			GGATACAGCA CCACCTCTAGA GTAAAGAATA ATGTATGCTCT CAAAAA	GGATACAGCA CCACCTCTAGA GTAAAGAATA ATGTATGCTCT CACCTAAATCATTCTAGAAACTGGGGATACAGCAGTAAAGAATACAAAAAAATCCTGC[C/T]CTTATA CAAAAA ATAA GAGCATACATTCTAGAGGTGGGAAAGAGGCAATAAATA

				TCTTTGGAGGGATAGAGGACAGAGTGTT[T/C]GTTGATTTTTCGTTTCGGTTTCAGTTTGGTTGTCATT
WI-14836	28 T C	::	•	GGIIIIIGIIIIIIGCIVACIACOCIAIAAAAAGCAGIGCCACCCACAGAGAGAGAGAGAGAGA
		TGGTGACACG	TITGITTGCTA	ACATTTCCTTATGATAGCAACAACTAAATATGATGGATGG
WI-14856	60 A	60 A T AA	CTT	GGCTATAAAAAGCTCCAAAA
	-			ATGGCAATTTACTTTATAGCAATGAACAAATATTTGTCAAAGGGCAAATATTTTTGTCTG[G/A]AG
				11AATAAAGITAATATCITTTACCACAAAGCTAGAGGTCAACAGTACCACTATTAATTA
WI-14863	616	GA	:	ACCIGGC
		GACATTCCAA		
		GGCTCTCTAAC	TGGGGCTGCAG	GGCTCTCTAAC TGGGGCTGCAG TTTTAATTAAACGTAAAAAGGCAGGACATTCCAAGGCTCTCTAACA[T/C]GAGTGTCTGCAGCCCCA
WI-14867	46 T	TCA	ACACTC	TTCGCTTTGAGATGTGAATGTGTTAACCCAGGGTGGA
		CCAAATTGAC	CATCACCTCAC	CCAAATTGAC ACCAGAGTCGTCTCTGATGTATCTTGTCAAAAATGTTTGCCTGATTCTAATCAAAAGAAAG
WI-14733	986	98 G A A	GCCATTTATT	ATGTCATGAAAAACACAAAA
	<u> </u>			TTTGTACCTATTCCCTGTTTCAGTGCATGTACAGGAAGAGTTGTCTCATAAGGTGCCACTAAGGAAA
×.				ACTITICTCCAT[A/CJAAGCTGCCTGCTGTGCACGTTGCCTGGGTTTGCTAACCCCTGGTGCTGCATCT]
14898b	79 A C	 O	•	GCCTGTGTTCTGTCTT
		CATGTACAGG		TITTGTACCTATTCCCTGTTTCAGTGCATGTACAGGAAGAGTTGTCTCATĮA/CJAGGTGCCACTAAGG
Wi-		AAGAGTTGTCT AA	AAGTTTTCCTT	AAAACTTTCTCCATAAAGCTGCCTGCTGTGCACGTTGCCTGGGCTTTGCTAACCCCTGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGC
148988	200	SO A C CA	AGI GGCACCI	ומככופופווכופוכו
				TGGTATTTATTTCCGACATTACTGTAGAGGCACACATTGGACTCTGAC[G/A]ATTCCCCTTGCAGCAG
WI-14907	48	G A GGACTCTGAC	ICIGCIGCAAG GGGAAT	ACATITICAL GAAGETIGETIGEGCACACCATIONATIONATION CONTRACTIONATION CONTRACTION CO
		CCAATACATT		
		CAGTTCCTGGT	CAGTTCCTGGT CAAACCAGGA	CTAGAATCTGGGAAGTCCAAGCTCAGTGCACCAATACATTCAGTTCCTGGTC[G/A]AAGGTCCTTTTC
WI-14911	520	GAC	AAAGGACCTT	CTGGTTTGCAGACAGATACCTTGCTGTATCCTCACATGGCAGAGAGAG
				CTGATGCTTTGACATCTGGGGCATTGCTGTCTCTAGAGACTACTTCTCCTGGGACCAGCCCAATTTC
				TAGIGAIAGIAGAGICALCALCIGCACGIGCACCIIICAIAIACAGAICAACCAAICAAACAA
WI-14913	88	C A	**	CIACACCICCAACCACCI
		CTGGACACAG	CAAGCCCAGGA	CTGGACACAG TITTCTCTAGC CAAGCCCAGGA ATTTCCTTGATTGGCTGTCGTAAAGCCTGTGAAGTCATGCACATCTGGACACAGTTTTCTCTAGCA(G/
WI-14914) 99	66 GC A	CAATAAATTC	CJGAATITATIGICCIGGCTIGAIGGCTTICACAGC
WI-14926	49.7	49 T C	•	GTTTATTTTCAAAATGACACATCCCAGATTGAAATGGGCACTTAGCGAAĮT/CJACTTGTGGACCACA AGACTTGTCTGAGAACATGTTCAAAGACAGTTTTCAAATAAAAATTTTCCTTAATCAGGTCCA

	-			
		ATGTTTAACA	0	GCATCTITATTACCACAGAAACTCATTTATGTCCTTAATCATTGTTTAATAATATATAT
WI-16083	89	B9 CT AAGGAT	CCAGCCC	CATTAAAGCAG
		GGAGGAGTCC	CACAACCAACC	CACAACCAACC CAGTTCTGTGTTCTGGAACAGCTCTCCTTTTCCACAGGAGGAGGAGTCCCTCATGGAT[C/T]GCGGTATTG
WI-14930	2000	CICAIGGAI	AALACCOC	TCAATACTGAAGGTGTCAAAGTGGTCTATTTGCCCCCAGACATAACA[T/C]CTCTAAATCATCCTCTA
WI-14946	47 T C	 O		GATCAGGGAGTCATAAGGCTCATTACACACAGTACTTTATGGAAAGGATT
Wi-				ACATTAAAACAGCACAATTAAAAGGGGTCCCAACGAGGTTGGTAGTGCCTTCCACTATGTGAGGACAC
15987b	80 A G			TAAGAAGATGGTC[A/G]TCTATGAACCAAGCTGCCGGTGCCATGCTCTTAAACCTCTCAGC
WI-		CACAATTAAA	GGAAGGCACTA	GGAAGGCACTA ACATTAAAACAGCACAATTAAAGGGGTCCCAAJC//JGAGGTTGGTAGTGCCTTCCACTATGTGAGGA
15987a	32 C	32 CT GGGGTCCCAA	CCAACCTC	CACTAAGAAGATGGTCATCTATGAACCAAGCTGCCGGTGCCCATGCTCTTAAACCTCTCAGC
		AGGGAAACTG	AGGGAAACTG GATGATCTTAC	GAATAAAGTICHATIGCCGTICCTICAGGGAACAGGGAAACTGCTAACTTGTCAGT/CITCCAACA
WI-14948		56 T C G	GA GA	ACTGATGTAAGATCATCTTCTGACCATAGCGAACCTGTAAGGCTTGCTGTTCCCTCCAGCTGA
		CAAAAAGCTA	CAAAAAGCTA ACAGGAATGTC	
		TTTTCCTACAC	TTTCCTACAC AGAAAACAGT	TTGTGTTAAATTCATCAAGGAATTGACAAAAAGCTATTTCCTACACTTGAC[A/G]GTAATATACTG
WI-16100	52 A	52 A G TTGA	ATATTAC	TTTCTGACATTCCTGTTATCAACTCCTCTGAAAATC
		AATAATITAT		GTGATTGATCTGTAATTATTGGGATTATTTATTCAACTCTAAAATTCCAAGATGAAAATAATTTATCT
		стсттстт	AATGCATTCAT	AATGCATTCAT CTTTCTTTCAAGGG[A/G]AAAAAACCCAAATGAATGCATTTTCAGTTTCTCCAGGCCTTTGAACTGC
WI-14958	83 4	83 A G CAAGGG	TTGGGTTTTT	AGCAGAAAATTCAAGGA
			TCAAACTAAAT	TCAAACTAAAT TATTTTTTAATTGGTTGATTTGCTTCGTTCAAAG[C/T]GCTTAGAATGGAAGATTTAGTTTGAGGAG
		GTTGATTTGCT	СТТССАТТСТА	GTTGATTTGCT CTTCCATTCTA GGGCAGGTTTGGGGGTAGGCTCAGCGGGCATAGTGGCCACAAGAAGATGCCCATCTCACACGAG
WI-14976	35	CT TCGTTCAAAG AGC	AGC	ACGTCCATGAGCACCTCG
		TCAGTGGTGTT	CACCTCTGACA	TCAGTGGTGTT CACCTCTGACA TAATTGATTCAGTGGTGTTTTATTGGATTTTTT[G/TJTTTATGCTAAGTATTATGTCAGAGGTGGAGAT
		TATTGGATTTT	TATTGGATTTT TAATACTTAGC	AAAGAGGAAAAAGAAACAAGTGTGGCTCTCGCATCAACGACCTGATCTTGTCACAGGAAGTTTTGA
WI-14981	31 GT	T	ATAAA	GAGCTCACAAA
•		TGCATTAAAT	TGCATTAAAT GCTATGTGCTC	
WI-14992		80 CT GAAGCTGCAG	AGCTTTCCT	AATGAAGCTGCAG[C/T]AGGAAAGCTGAGCACATAGCACCCAACTGATCGGAAAGAAA
				AAATCTCTTCTTCACACACAGATGAACTTTAATAAATTACAAATGCACCTGAAAATGCCTTCTTGA
WI-15002		72 T A		TTTCC[T/A]TTCAGTTTAGGCCTCAAATGGGCTCTCCTCAAGGCTGGACCTCAAAGGCCCAGTT
		GACAGAAAAA	GACAGAAAA GTTTCTAGTTC	
		GACTCAGACT	TGCACAAACTT	
WI-15000		90 G A GTCTAA	CA	AAAAAGACTCAGACTGTCTAAGTA[G/A]TGAAGTTTGTGCAGAACTAGAAACAAAAATCCACCT

WI-12323	89	CACAATACTT CATGTACCTA	T CACTGGACATA	CACAATACTT CACTGGACATA ATTITGTTGATGTTGGTTAAATCTTATCTCTTTTTTTATACACAATACTTCATGTACCTATGAAATAA[GAAATAA TTCCCTACCTG G/AIACAGGTAGGGAATATGTCCAGTGCAAACAGAGGACTCACACACTGTGCATAGACAGCACC
1WI-14683	0	1	AA GGCATGTCCCA	AAGGGACGAT TTAGTACTAAAGATCCCACGCCATCTAAAAAAAAACTGTGTACAGTAATCAGGACTGGAAAAAAAA
	,	CCTGCCTTTAT	AT TC GGGAGACCATG	CCTGCCTITAT ATTITION GEGAGACCATG CAAATITICCTGCCTTTATTGGAATITICTACCAGAGAAACATTICTACCTGAAGACCATGCAGGAAGCCATGCAGGAAGCCATGCAAGTGAAGAAGCCATGCAAGTGAAGAAGCCATGCAAGTGAAGAAGCCAAGTGAAGAAGCCATGCAAGTGAAGAAGCCATGCAAGTGAAGAAGCCATGCAAGTGAAGAAGCCATGCAAGTGAAGAAGCCATGCAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAA
WI-13470	100 CA		GGTCTCT	AGGGCACTCAGCCCTTC
14710	0 0	TGAATGCTTCC AAGTACAAAT	TGAATGCTTCC TGAAAGTATGT AAGTACAAAT TGTATATGGTA	TTTGGTGCTACTTTGTGAATGCTTCCAAGTACAAATCA[T/A]CTCACAATACCATATACAACATACAATACAATACAA
	3	TITACTITIGI	TTACTITIGIT CCATAAGGICT GTCATTITIAT CACACTITICT	TITACTITIGIT CCATAAGGICT GCATTITIAT CACACTITICT TGGGATACCCTITIACTITIGITICATICIATICIACIATIATAAGAAAAGTGTGAGACCTT
WI-13712	40/	A C TCTATTG	TAT	ATGGCTTCTGCTTATTGGGCAATATGCAATATATATTGTGTGTTGAAAATTTATGCAT
WI-16163	35	TCTGGTGATG AATTGAAAT	TCTGGTGATGC GCTGCCAATTA AATTGAAATA CATTAACTTAC AA	TCTGGTGATGC GCTGCCAATTA AATTGAAATA CATTAACTTAC TCTAAGATTTACTCTGGTGATGCAATTGAAATAGC/TJATTGTAAGTTAATGTAATTTGGCAGCATT AA AA AA AA
		AATGCACAA	A TCAGATTTTTA	AATGCACAAA TCAGATTITIA TITITITIATITGCATTTGAGTGCTTTATTATATTGGGAATTGCAGTGATATTAACATTTGTACAAAT
WI-13453	88	ATCTTGTCTC	ATCTTGTCTCT CATCTCTTTCT TC AGCA	GCACAAAATCTTGTCTTCTT/AJTGCTAGAAAGAGATGTAAAAATCTGACCTAGTTGAACAGTCTL
		CGCACTCTAA	A Techograeate	CGGATATAATTATGTACCGCACTCTAAATTAGAGATAGAT
WI-16167	58	TCGATTTT	AATAAGATG	
14/1-14/82	1	\ \ \ \ \ \		GCAGAACCAATTAATAA(G/A)AATCTGCAAGTTTTCCCCAAGAAACTCTGGAACCATAGTGCCTAAT
WI-15069	8	2 L		TGTAGTTCTTCAAAAAGACATGTTGGCAGATAGCCAGGCCATACTATGTGTATTCCCAGTATCATGTAC GCACTAAAAAAAAHI/CIGTGTGCTTGCTGCTGTGAGTGAACCATTGCTTAAGATAAA
WI-16156	97	TGAAGATTAA A C CCCAGAGTCGC	AA AATTGTGTGCA	AATTGTGTGCA ATCTGGTATTTGTGTATCCCAACAAGTATACAGAATACTCTATAAAAACCAAACCCAACCCTTCAATA TTTTGAAGAGA TTACACTAATGAAGATTAACCCAGAGTCGC/A/CJTCTTTCAAAATGCACAATTAAGACG
		GCAGCAAG	GCAGCAAGAT CTCCAAATAGC	TOO A TO A TO A TO A TO A TATA
WI-15012		59 G T ATGT	IA CIAGAGIAIAG TAAGGT	TAAGGT TACTATACTCTAGGCTATTTGGAGTGTTCCCCCAC

	-			- A STANDON A TANDON
				TCTTATTCACAGCCAAGAAAATACCCAATTATTTCAAGACAGGAGCAGGCAG
WI-15100	74 GA	Α		GCATTICTAGTGGACTITAT
WI-14492	4 60	CCTTTATTITC CCAAATATAA	GTCACCATGTT ATATTTTCTTT TAAGAC	TGGTACAGAATGTTTAATTACAGCAGGCAGTGATTCCAGTTAAATAAA
-iw				TCTTTAATTTTATCGGAATCCAGGACACAAGAAAAAACCCCAAAAACCACATGGAGACAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGA
12002c	89 T			AG
W				TCTTTAATTTTATGGGAATCCAGGACACAACAAGAAAAACACCCAAAAACCACATGGAGACAAGAAACAAAACAAAAGAAAAAAAA
12002b	68 GA	A		AG
-iM		TCGGAATCCA	TGGTTTTGGG	TCTTTAATTTTATCGGAATCCAGGACACAA(C/GJAAGAAAAACACCCAAAAACCACATGGAGACAGAAAAAAAA
12002a	30	30 C G GGACACAA	теттттст	AG
		GGGAGCCCTA	CCTGAATATGC AATTATTTATT	CCTGAATATGC TTTTCATTTATTTTCCAGAAAAGAAATCACATTTCAGTAACAACTTACATATAGAATTAAACTTTG AATTATTTATT TTCTGGAATGGGAGCCCTAGTTGCAGTAA(C/T)GTGTCATAATAAATAAATTGCATATTCAGGATTTTG
WI-15116	96 CT	T GTTGCAGTAA	ATGACA	TGAAATAGGTGATTGGGA
				GCAAAAGCAAAGCTATGGAGGCCTAAAGGAATGGGAAĮC/IJGTGTTGGTGGTCGCTTGATACTTGGT GCTTGTGTGCATGGAGGAAGTCTTCCTGGTCCATGCAGGGGCGTCACATATTTTAACTGCACTAAT
WI-12578	37	C T AATGGGAA	CCAACAC	TTGGGCAAACTGTCATTC
WI-15153	0.4	CCCTTATGTTG	AACCTCAGATA AGTGCAGTGTC T	CCCTTATGITG AGTGCAGGTGC ATTICACGTTGGCCAAGATCTCCCTTATGTTGGCATTGCAQAGGAATTACCATTTCCTAAGGGTTA GCATTGCA T GAAAAAATGTAGTCTTAATAGCCCTCTTAATGTGTAGCAAGGCAAATTACCATTTCCTAA
WI-15215	84	TGGCTTTAGA R4 G C TCAAATGGG	A CCAACAGGGGA AAAAGTCA	TGGCTTTAGAA CCAACAGGGGA CCTTTGCTCTGAACTGGGACCAGGATGTGAAATAATTTTTGAATCTGATGCAGGTCGAGGTATGGC TCAAATGGG AAAAGTCA TTTAGAATCAAATGGGGCJTGACTTTTTCCCCTGTTGGTGGAAAACTCTGTGAGGGTTTGGCA
4 170	- C	CTTGAGGACCT AGAAAGCAAA	T TTGATTGGCA TAATCACTCC	CTTGAGGACCT AGAAAGCAAA TTTGATTGGCA AGGAAAGAGGTAAAGCAAAGGCGATCATTGGATGGAATGATTATGTGTCACGAGCACTTGAGGAC AGAAAGCAAA TTAGATTGGCA AGGAAAGCAAAGCAAAG
WI-15152	5	51 G A		AATTTGCTAGTGCAAATGGACCCAGAATTGGAAGGGCTATGTAACTACACA(G/A)TATGCACACCACAGCATGCAGGCTGCATTCATTAAAAACACATCAAAGGCTGCA
WI-15123	1	TGTTAGTGACA I GACAGATAAA TI	∪	FIGETTAAGGG TGACTGTATACCAAATGCTGTGCTTAATGTTAGTGACAGACA

				CONTROL ON CARCACTETE ACTABET A CONTROL OF THE CONT
WI-15182	49 C	C A GGCAAAATA		ATGCTAATGGGTTACCTTTATTTAGTAATCATGGGTCCCTCATAAGCATGGTCCAGATCCG
		девесетте В	ACTTATCCGTC	GGGCCCTTGGC ACTTATCCGTC GTGGACCTCTACAAGTACCATGGGCCCTTGGCACTATG[T/C]CTACTCTGCCTGACGGATAAGTTGGC
WI-15198	38 T	T C ACTATG	AGGCAGAGTAG	AGGCAGAGTAG ATATGGTTCAGATTGCTTGTCTACACAGTCCAGTTTCCCTAGAGACTAGTCCGACTCTCTT
		CATTTATTGAG	САТТТАТТВАВ ВТТВТАВТСТТ	TCAAGTGGTAAATAGCCATTTATTGAGTATTCTTGCTTTGAT[T/C]GTCTACGTAAGCATGTAAGACT
		ТАТТСТТВСТТ	ACATGCTTACG	TATTICTTGCTT ACATGCTTACG ACAACATTACGACCCATCTTCAAGAGGAAGTCTGGTATTATGGAAAAACATTTTGTCALICAGA!
WI-12601	42 T	42 T C TGAT	TAGAC	
		TGGCAAAATA		A A A A C C C A A A A C C C C A A A A C C C C A A A A C C C C C A G A A A C C C C
WI-14510		104 A T AA	<u> </u>	TTGTTTGCTTTTTGTGGCAAAATATGCATAACAAAAT[AT]TGCCAGTTTAACCATTTTCAAGAGT
		CATTTGCAAT		CAGTGTGATGACATTTCAATGGGAAAAAGATTGTGCATTTGCAATAAACACCATCAT[T/C]CCTGAG
		AAACACCATC	GGACCTTATCT	TCCACAGATAAGGTCCCCGGAGAAGGGGCTTCCCCTTTCTCGCTGGGTTGACGTTCCCAGCGAGT
WI-15239	57 T C A	O	GTGGACTCAGG	GAAGCCTTTCTGGAATG
		GCATCATATG	GGACAAATTGT	A TO COLUMN THE STATE OF THE ST
		AACTGTCTAGC AAACATAGCT	AAACATAGCT	ATGAGTTTATAAACTGGAGACAGCGCATCATATGAACTGTCTAGCAGIAIIA(I/C)GCIAIIAGCIA
WI-12634	52 T	T C AGT	AATAGC	TGTTTACAATTTGTCCTGAAGGGGTCTAGATGTGTACACCCCAGAAAGTGGTGATTCCTGA
			GGAAAGCCAG	TTTGCTTGAAGGGCTTGACACAAAGTTCTAACTT[T/C]TTGTTAAAAATCTCTGGCTTTCCTGGCTGG
		GGGCTTGACAC	GGGCTTGACAC AGATTTTTAAC	TGAGGAGGCACAGGCTGGGGTCTTCAGGTATCCACTGGTGCCCCGCATCTGTTCCCTCCACTCCACTCCACTCCACTCCACTCCACTCCACTCACACTCCACTCACACTCACACTCACACTCACACTCA
WI-15249	34 T	T C AAAGTTCTAA	AA	CCCACATTCTTGGCTCT
		AAGACACCGT	AAGACACCGT CCCTCTCCTCA	CTGTCCGGGGAAGACACCGTGCAAATGCJC/TJAAAGTGCACTGAGGGGGGGGGGGGGGTCTGTGACTC
WI-12159	28 C	28 CT GCAAATGC	GTGCACTTT	CCAAACCCTCGAATATTTATGAATCTAAGAGTCCAGACGCAGTTCATCCACGGAGATCTGC
			TTGCTACTAAA	
		CCTAGTGGCAT	CCTAGTGGCAT AGTGGACATCC	
WI-12648		41 A G TAAGGATGC	T	AACCGATGTTAATTCACTACTCCATGTTAGGTGCTTTACTTGGATTATCTCACTTAAAAACCACA
		CATGCTGTAA	GGAACAACAA	ATGAGAGGTAAGTGTCAACAGTAGGCTTAAAATATTCAGTAAACCATGCTGTAAACAGCTGTGC
WI-12684		64 GT ACAGCTGTGC	AGCCTAAATGG	
		AAAGGATGAA		TTTATAAGCTGAATGAAAGAGGTCGACACAGCGGACACTGTCATAAGTGGAACAAAGGATGAAGG
_		GCTAATCATG	TCTCTCCAGGG	AATCATGGA[G/A]GCAAGCTCCCTGGAGAGAGAGGGGACAAAATCAAGAATGAGCTGGAGAAN I AA
WI-15260		75 G A GA	AGCTTGC	TCCTG
		CATGTGGCTGG	CATGTGGCTGG CCTTCCACCAT	AAGGTTTAATGGACTCACAGTTCCATGTGGCTGGGAGGC[T/CJTCACAATCATGGTGGAAGGCAAAA
WI-15325	39 1	39 T C GAGGC	GATTGTGA	GGCACATCTTACATGGTGGCAGTCAAGAGAATGAGAGC
		AGTTGGCATTC	-0	TATTTGAGTATTTCATCCATGGCGCTTCTCACTCCCCTATACATTCTCCAGGGTTGAGGTAGTCTACCC
		AATAGCCTAT		TGAAACTCCCA CCATAGGTTCAGAACCTATGACCTGTATCTTCAGTTGGCATTCAATAGCCTATC[C/I]AACTCCATGI
WI-13936 123 CT C	123:0	citic	CATGGAGTT	GGGAGTTTCATAATAA

WI.14508		TTTTAACTTTT TCTGGATGGTA	CTCGATTAGCA CTTATTATAAA	TITIAACTITT CTCGATTAGCA TATGCTTTATTGAAGAGAAATAGGCTATTAATATATTTTAACTTTTTTAACTTTTTCTGGATGGTATAAATTT/G]TT
7.027	1 7	GACTTCAAAG	TCACTCCCCCA	GACTICAAAG TATITICITICGGTTTCGGATGCAAAACAAAAATTTTAAAAGAAATGTGACTTCAAAGGAAAAGA GAAAAGAACA TCACTCCCCCA ACAAATTTCTTTCGGTTTCGGATGCAAACAAAAAAAAAA
WI-14546	95 0	TTCTAG GTAGA CA	AAGGTGCACGT GCAGG	AAGGTGCACGT GTATTITCTGATGCTTTGACATCTGGGGCATTGCTGTCTCTAGAGAGACTACTTCTCCTGGGACCAGC GCAGG CAATTTCTAGTGATAGAGGACTCA[C/a]CCTGCACGTGCACCTTTCATATACAGATCA
WI-15353	37 6			TTTATTGGCTGTCTGTAATACAATGTGGTGAAAACJG/AJTCTTAATTCAGGACATCTTCCACCTTG
WI-14580		100 G A GTCTTGCA	CCGACCAAGAT CCCTCC	GACCAAGAT AGAATTTTTCCTTTTTTAACAGGACAAGTAACAGATTACATCAAACTTCAGAACTTCTCAAATACCTCC
WI-8540	73.1	GGCCTGCATTT GCCCTTCTTTT	GCCCTTCTTTT TCAGGCAC	CCAGCTGGAGGTGGAATAAATGCGGCAACCACAGAAAAAAAA
WI-8039b	7 L	- 0	į	AAGTAGAACACAATAGAATGGCTCAAAAATATCAGAATGCACTACGCACATCACGAGTAAATACTG TTTGGTAAAAACTTGTTTCAGTTAAATATGTA[T/C]GTGTCCGTGCATGTCATGATTAAATATCCTTCT TACCACAGTCACCCTAAAGAACCAAAGCTTAGGACTAGGGACAACCATGCAGAAAGAA
WI-8039a	87 T		I	AAGTAGAACACAATAGAATGGCTCAAAAATATCAGAATGCACTACGCACATCACGAGTAAATACTG TTTGGTAAAAACTTGTTTCAGT[T/C]AAATATGTGTGTCCGTGCATGTCATGATTAAATATCCTTCT TACCACAGTCACCCTAAAGAACCAAAGCTTAGGACTAGGGACAACCATGCAGAAAGAA
WI-8044	107 (107 C A	į	CACAACATTCAGAAGITTTTCTGCATTGTGTCTTCTCTGATGTCTAAAAAGATTTGAGCTTTGACTAT ACGATTTCCCACACTGAACGCATTCATAAGGTTTCTCCCCCAATGATTCTCCCACATTCAAGGTTTCTCCCACATTAATAAGCCCGAATTCTGGCTAAAGGCTTTCCCACATTGAAGACATTTGTAAGGTTTTCTCCAGTGTGGACTTTCTCCAGATGGAACTTCGGCTGAATGCTTTCCCACACT
WI-8550	32 (GA ATGCAACAG	TTTGTGGCTTG AGTTTACAAAT T	TTTGTGGCTTG AGTTTACAAAT CTTACTACATGGAACATCAATGCAACAGTA[G/A]AATTTGTAAACTCAAGCCACAAACTTAGTTA ATAATCATGGTTAAGGGACATTGCCAAAGAGCAACTGATGCCTCAGTGAA T ATAATCATGGTTAAGGGACATTGCCAAAGAGCAACTGATGCCTCAGTGAA
WI-8057	87	87 T A	<u>i</u>	TATTAGATAAAACCCTITGTICCCGATICAGGATGTITAATTIGCTICTCTITTAAACTCTGTGACTTITTCCTGGATCAAAAAAAAAA

WI-6192	A 16	GACTGCTAAG GATTTAATTTG A G GAT	TGAAGTGTTAG ATGGCTAAGTA TTAAAA	GACTGCTAAG TGAAGTGTTAGAAAAATTAGCTCAGTCCAACATGATTGGCAGTTGGCATTTCTAGTGAAGCAAGTGTTCT GATTTAATTG ATGGCTAAGTAAAAAAAGGAATTTAATTT
		CACATGGCAA	STCAG STCTG	AAGTGATGTGTCCTCACAAATACATTTCTCAAACTCAAAACATCATGCTTGAAATATGCGGGATAGGTCACGGATGGGATAGGAAGTAAAGGAAAGTAAGGAAGTAGAGAAGTAAAAAGGAATTGGAAAAAA
WI-6194	- 	A GASA	5	CATATGCTGCTTTATTTCTGTAAGGATACACTGAAACGTTAGATGATAATAGCTAATGACAGAATGT AGAAATGAGGCATCAGCTTCTCTAACCACTCCTACAAGAATGTTAGTATGTAT
WI-6213	164 CT			TGCATTTCAGGTAGCGGTAGGTGGAAATCCAGATTICCICIIGAGGAAAA
İ				CGGGTTAAGAATACCTTTAAATTTAGGTAAATAAAGCTCAAGGAGGTGGGGGCTGTCATCTGTGGGGCTTGACAAGCTGTGGCTGTGGGGCTTGACAAGCAGCTGGTTCAAGGCTTGACAAGCAGCTGGTTCAAGGCTTGACAGCCTTGACAAGCAGCTGGCTG
WI-6217	131	CT		AC
WI-6238			•	ATAGTCTTTATTTGTCAACGAAGGCTACACGGGATCACTTCTGGTTTTGTTTTTATGCTTTTTTTT
		GCATTTATTCA	A CTGTTTTTGGA	GCATITATICA CTGTTTTGGA CTTGATTTAATCAGGGCTTTGGGGTCATAGGGGGGATTAGTCACTGTCACAGTCATAATAATGCATTTA GGGAAAACTT GAAGACAAAG TTCAGGGAAAAACTTTAATIC/IJITCTTTGTCTTCTCCAAAAACGCTGCTGGAACACCCTCAAATTAA
WI-6272	86	<u>۱</u>	AA	GGGATGTTCATCTAAAACACCTTTACTGAAACTTGATTCCTTGGGCCAGAGGAAGGICIIIACIGIAA
				CAGAGGACTTAATGCAATGCCTATTCGGGCAATAAATGAATACTTGATGCATTCATACAGGCAAGAAAGCAAGGAAGG
		CCCAGAGAAG	CAGCCATGGCT	
WI-6303	0	201010101010101010101010101010101010101		ATGCTTTTGCATGATTCTAATTATTGCCTTTTTCAGAGCTCTGCTGGTAAAAAGTGGGGGTGCCATACA
				AACAGGTCCCTTTTCAAGCCCCAGCGTGTCATGCATCCTGCCAATCAAT
WI-6315b	193 C		•	CTTCCCTTTACATTCTTTTGGGGGA
				ATGCTTTTGCATGATTCTAATTATTGCCTTTTTCAGAGCTCTGCTGGTAAAAAGTGGGGGTGCCATACA
				AACAGTCCCTTTTCAAGCCCAGCGTGTCATGCATCCIGCCAAICAAICAAICAAICAAICAAIGTCTGGTTTCCTGGTTTCCTGGTTTCCTGGTTTTCCTGGTTTTCCTGGTTTTCTTC
		1		AACAGGTCAACCGTTGTTTTGGGGGA
WI-6315	_	1871T C		

WI-6375	GG TA	TTTATTGCA	AATGTGAGATC TTTATTCTAAC	AATGTGAGATC TTTATTCTAAC AAGGTTTATTGCATATGGAAATCAATAG[A/G]TATCTTTTACAAAAAAAGGTTAGAATAAAGATCTC CTTTT ACATTTGTAAAGGCACATATGAAACATTTTATAGCAAGCA
				TTGTGTCTCCAACAGATGAAATTCATAACCTTGTTTTCTGATAAGACAATTCAAACATACAAATCAAATTTTGAATTTTGAATTTTGAAGTTACAACTGACAGTTTTGAAG
WI-6409b	112 T	Α	•	SACACCARGACKA I AGGGCO
				TTGTGTCTCAACAGATGAAATTCATAACCTTGTTTTCTGATAATAAACAATTGAAGTTTTGAAG
WI-6409a	73A	1		GACACCAAGACAATAGGGCT
				CTAATATAATCCTGGGCACATGGATTCCAAGAGAGTTTTGCAGCAGATTTCATTATAGTTACTTAA
		GCTAATCCAGT		CAGCTAAATAATAAGGGTGTATTTAACTTACTTACAGAGTCACTAAATAATGGAGGGGAAAGGAAA
WI-6523	165 G	AGAGACTGAA	AGATGCTTAGG GAGT	GAGI AGGGCI AAT CCAGI AGAGACT GAACCT GCATT CTAGACT GCATT GCATT CTAGACT GCATT
				TCTCCTAGCCCTATTAGGCTACACTGTAGTCACCTTCTATGAGAGGAAGGGAAACAGGAAGATGGGC
				TOCTGGAGTCCAAACAGGATGTGGACGTCCCTGGTAGTTCTCTCTTTTCACAACTTTTCCC1GAGA
				ACTGTCCCAGTCAGGTGGACCTTCACAACACGGAACAGGTAAAACTCTGAGAGAAAAAUUVGJVTG
WI-6554	195 C	 0		ACTITOAGAAAGCATAAAGCTGAGAAAAG
				ATTGTAATTAAAATTTACATGGGCCTATTTATTAAGGACATTGTGTAATGTTTCCACTTTGTTTTAAAA
WI-6558b	08 C	L	:	[C/T]AATTACAAACATGTGGCTTAAAATAATGTACAGATCAATGTAACAAGTTGAAAAGTTGAAAAATGGGCG
				ATTETA ATT A A A A A TT A C A T G G G C C TA T T A A G G A C A T I G C I G T A A T T C C A C T T I G T T T I
WI-6558a	42	1	:	AAACAATTACAAACATGTGGCTTAAAATAATGTACAGATCAATGTAACAAGTTTGAAAAATGGGCG
5000				AACCAAACAAAACTAAGAAATGGGAAAAAGAAATGGCAGGTGAAGAACTCTTTTCAGAGAATAAA
		TCTTTTCAGAG		AGTTGTCATA[T/C]AGCAATGGATGCTGTGTCAGAACATACTGCCAATAAACTTTAAGAAAAAAGGA
		AATAAAAGTT	TGACACAGCAT	TGACACAGCAT ACTCAATGAAGTTACTGTTATATAAAACAGGAGCTCACAGGGGAIGIAAGAGIIAAIGGAAGAI
WI-6629	75	75 T C GTCATA	CCATTGCT	ATCGTGAGCCAAAAC
				CTGCCCTGAACCAATCAGATTTAGTTTAAATCAAATCAA
••-				TICIACICICAAACTTGAAGGTGATTGAACCCCAAAATAATGGGTGGGAAACACCCAAATGAGGTGGAGGA
WI-6644	134			ATGAGAAAGATGTGGGCCAAAGCTATCTGGTTATATTTTGATGTTGCCAAT
			ACATAAAATA	TGCTAAACACCACCATTATTAAGGAGAGTACTAGGAAAAACTACCAAACACAGCATGTGAAACAGT
		CAGACTCTGG		TTGCAGTGTAT TGGGCACGGTGGTAAAGGGCACAGAGTCTGGAGCCACAGAGCCACAGATACACTGCAATALIIIA
q0699-IM	106	106 CT AGCCACAGC	TAGCC	TGTTTAGCAAATTATAGCTGGTCTGTATAACCAGAAGCGGTATCTGG

		AAACACCACC	GCTGTGTTTGG	TECTAAACACCACCATTATTAAGGAGAG[T/C]ACTAGGAAAAACTACCAAACAGCAGGCAGAAACAGCAGAGGCACAGGCGGCTAATACACTGCAATATTTA
WI-6690a	28 T		TAGITITICCT	TGTTTAGCAAATTATAGCTGGTCTGTATAACCAGAAGAGUGGIAICIGG
	: (CAAACCCCAA	GCTTTTGGAGT GTATAATAGTA	CAAACCCCAA GTATAATAGACTCCAAAATACTTCCCAAAGTAATCCAAACCCCAAAACATCACAAAATACTTCATAATACAAAAATACTTCAAAAAA
WI-6770	53 P	53 A G AACATCACA	CCTTGTAAGTG	TETAAGTG ATTOTGTAGGGAAAGGTTCAGCAAATCAGCTAGCACTAATCTTGACCAAATGGGTGAGTCAGCCTCA
		AAAACAAAGA ACI	ACTATTCCAAT	AAAACAAAGA ACTATTCCAAT TCACAGAGATTTTTTTTTT
WI-6686	151 A G A	G A	СΤΤ	TCCAAAAACAAAGAAT[A/G]AACATTGGAATAGTCACTTACAAGGAC
	:	GATCTAACAG		CCTGAGAGGCAGATCTAACAGCTGCAGAATGG[C/A]CTTCTTCCTTCCCAGCTTTTGTGAACAAAACAAAAAGCAGTGCAAAATGGGTTGTTCAGGTACAAGGTCTC
WI-6761	32 C A	AG	AAGGAAGAAG	ANTICIOCIPAGACATOTATATATATATATATATATATATATATATATATAT
				TAAAATACTGCCAACTAGCATTACGTCCACTCTTGCATCATTAAAACAAAGGGTATTTCCAATGAATG
				TAAACTGGTAATTTGTTTTAAAAAGCATAATAATATGGTTCCTTTCTTCATAAAATGGAAATTIAAA
WI-6844	225 T	::0		TATITCTICTGATAGICTIGAGGI[I/C]AICAI IAI GAGI AGI IGCAAAGI GI G
				CGGTTTTGCTACACTTTAATGGGTTTTTTTTAAGGGATTTTTTTCAGGTCTTGTCAGCAACATCAAAAAAAA
				GACACGGAGAAAATGCGCCTCTTGCTCCTTGAAGAGCTTACAGTCTAGGGATTTGACAACTCACAGT
WI-6824	112 A G	0	;	CTTAGGAACTGGGCAAAGTAAGGCAAATTCTTCATCCCCTAGAGCTATTGTG
			GAAAAATGAG TCACTTTGTGG	GTACAAAAAAGCTGAGAAGAGCCAACATGGAAGTGTCAAGAAAACATTCTGATAGGTACGGACAA AAGAGCTCCTTCAATCAAAGGAGTTACATATTAGTTCTCACCATGCTAGAAAAAATGAGATGCAGTTA
		ATGCAGTTAA	CTTTTAATTAT	ATGCAGTTAA CTTTTAATTAT AAATTCTTCJAGAATAATTAAAAGCCACAAAGTGAAACTGTTGTTCTGGGGCCCTAIGTTGTAAAT
WI-6889	1397	139 TIC AATTC	TCT	CTCT
				TCCCCAGCTCATATTTATTTGGGCACAGAGTGGGCACTCAAATATCTGATGAACTTGATGAACTGAACTGAA
				AAGAGGTCTCCTTAAACAAGATATCATCTCCCGAAGAGGAGGAGGICCCAACUAIAIAAAAAIGIAIGAI
				CAAGTCCCAGAAAACTTTGCCTTCCCAAGGAATGIGIIICIAAIIIIGGIIICAAAACTTTGCCTTCCCAAGGAATGIGIIICIAAIIIGGIIICAAAAAAAAAA
WI-6911	216 T	O	!	CACTITTACCACTITI/CJCATGACATTGGACAATAGTACTACTCTTTCTAC
				GCCAGTCTCTAGTAAGTCTCTAGGGACATGACCAGACCA
				AGGTGGCCATACTTGGGTGGAGGGATACCGCTGCTATTCCCAGAT[G/CJAAGATTTGGTGGGAAGGAAG
WI-9413	112 GC	- <u></u>	:	ACCATGACAGATGACAAACGGAACAGTTTCTCAAAAACAGAGGTATGA
				AAAAGCTTTAAAAAAAAAAAGTGGTGCTATCTTTAGAAACACTTTCAGCAAGATCAAGTAGCCCAGCT
1411-0557	74	74 CT	;	ACAGCCTIC/TJGGTGCATCTTAACCCCTCTTTT

				TECTOTITITION OF THE CACACACACACACACACACACACACACACACACACACA
				CGCCACGCTTGGGCCGGAAGGTCTCATTCTGTTCGTCTCTATGGACTGATTGGGATTGGCCAG
WI-9617	24	; 		CTCCAGAATGTTCCACGTGGGGGCACTCTGTGGGCAGAGAGGGCTGAGCCCTTGCCCACACTGGCACACTGGCACACTGGCACACTGGCACACTGGCACACAGCCGGGTGTGCTGTG
1	5			AATGCTGGAGAAAACATCAATGATGATAGAAAAAGCCAGATTTGCTGAAAGTATAGCTACCATCCACTAT
				TGTATTAAATAAATGTTTATAAATGTTTATGAAGCTCATTACATTATCTTTTTTAAAAAGTAAAAA
WI-9657	121 T	: 0		TTTTAGAACATATGACGCTTTTCATAATTAATGCTTTTGATATAGATTTGAGG
			AAAAATTAAC	CAGGGTCTTGCTCTCTCTCCCAGGCTAGAGTGAGGTGACACAATCAAGACTCACAGTAGCCTCAACCT
-iw	-	CCTCCCAAGTA		CCTATGCTCAAGCCAGCCTCCCAAGTAGCTGGGACTACAGGCATGT[G/C]ACACACACACGTGTAAAAAAAAAAAAAAAAAAAAAAAA
13119b	114 G	114 G C GCTGGGA	_	I I I I I I AAI I I I I G I AAAGA I AGGGI O I CACI AI GI I GCCCCC CO C
				CAGGGTCTTGCTCTGTCTCCCAGGCTAGAGTGAGGTGACAATCAAGACT[C/G]ACAGTAGCC1CA
14/1				ACCTCCTATECTCAAGCCAGCCTCCCAAGTAGCTGGGACTACACACACATGTCAAAAAAAA
131192	21	<u> </u>		2
				ACAGGAATCTGAAAGTTACCAAGGCAATTTTCCCTTTTAGGATCATAAAGACTACAGACTTAAGCTT
		TCATAAAGAC	TTAGAAATTTT	TTTT[C/T]CTTTTTCCATATACACAAAATTTCTAAATATCCTTAAAAAA
		TACAGACTTA	GTGTATTATAT	TACAGACTTA GTGTATTATAT TTCAGTATGTTATGTAGAGTCACATACTATGGCAAAAATATTTATT
WI-13112	71 C	71 CT AGCTTTT	GGAAAAAG	
				TGTTAACATTTTATTGGTACGTGCTCTCAGTACAA[C/A]AAACAGCATCAGTAGTAGTACACTTTGAT
			CAAAGTGTACA	CAAAGTGTACA AAAAAGGAATTTTAGCTTAGTAGAAAAGAAA
		TGGTACGTGCT	CTACTGATGCT	TGGTACGTGCT CTACTGATGCT CTTTATGGAAACTGTTTGTGTGACCATCTTTATCTTCCCCTGTGGATGAGATGTAGATGTGTGAAAAA
WI-12988	36 C	CACTCAGTACAA	СТТ	AAA
				TGCTATTCATGACAGACACGTGAGACAAATATTCTTATTTACAGATGGAAATAGACCCAGACATTA
		CTAATAGTGG		TTCAGTACTTTAACCACTAATAGTGGAACCCTGAGACTTTA[G/A]ATCTGCAAAGGGGT11AA1AA1
-ix		AACCCTGAGA		CATTATTAAAC GCAAATATCACATATATTTCCATTTTTAACACCATATTTAAGTTTTCCATTTTCTTTTAACACTATTTAAGATTTCCATTTTCTTAACACATATTTAACACATATTTAACACATATTTAACACACATATTTAACACATATTTAACACATATTTAACACATATTTAACACATATTTAACACATATTTAACACACATATTTAACACACATATTAAACACATATTTAAACACACATATTTAAACACATATTTAAACACACATATTAAACATATTAAACATATTAAAAAA
13020a	108 G	108 G A CTTT	CCCTTTGCAGA	CCCTTTGCAGA TAAAAAATGTTTTCCCCAATAT
				TGTATAAAAAATCCAACTTGTTCCACAAGTACATATGTCCTATGATTTTATGCATACATCCATATAC
		CCATATACAT		ATATATCAAGGTAAAGTCCA[A/G]TACAAAAAAACAGCATTTCCTATGGCCAGTGTTCTACAGAAG1
		ATATCAAGGT	<u>છ</u>	AAGACTGTGCAAACTTTATCGTATAGTCAAATGAGATTGCACACI AAGGCAGGA I GAGGCAGAAAGA
WI-12837	87 A	87 A G AAAGTCCA	ATGCTGTTTTT	AGTTGTGTCCA

				GTCCTCAGGCCCTTCTCTGGCTGCAGAGCCGTCTTCTCAGGTTGCCTGTCJG/CJTCTCTGGCTCJAACTTCTTCTCTCTGGTATACCTTAGTGCCTCACTTCTCTCTGTATACCTTAGTGCCTCACTTCTCTCTGTCTATACCTT
				GCCCCATCTGAGCACCCATTGCTCACCATCAGATCAACCTTTGATTTTACATCATAATGTATTCACCA
L42611b	50 GC		•	CTGGAGCTTCACTTTGTTAC
				GTCCTCAGGCCCTTCTCTGGCTGCAGAGCCGTCT[T/C]CTCAGGTTGCCTGTCGTCTCCTGGCCTCTAG
				TCTTCCCTGCTCTCCGAGGTAGAGCTGGGTATGGATGCTTAGTGCCCTCACTTCTCTGTCTATACCT
				GCCCCATCTGAGCACCCATTGCTCACCATCAGATCAACCTTTGATTTTACATCATAATGTATTCACCA
L42611	34 T C			СТЕСАСТТСАСТПЕТТАС
				TGAACGTGTGGTTAAAACTAGGCAATTGGTTAAAAATCAATTTAAAAAACAGGCCTAGAAACAGTG
		TGAAGAAATG		ACCACACCTCAAGCAATGATTATCCCTAGCACTCAGATTATGTTCTTGAAATACCATTTTCTGCTTTC
		GCTGATACCA ATGTGCATITI	ATGTGCATTTT	AAAAGAAAGACATGAGGGCTTCTTGAAGAAATGGCTGATACCAAG(C/T)CTGCAGTGAAAAATGCA
WI-1172b 179 CT A	179 CT	Ą	TCACTGCAG	CATGATGAGCCTGGAACATGTTGT
				TGAACGTGTGGTTAAAA[C/AJTAGGCAATTGGTTAAAAATCAATTTAAAAAAACAGGCCTAGAAACA
				GTGACCACACCTCAAGCAATGATTATCCCTAGCACTCAGATTATGTTCTTGAAATACCATTTTCTGCT
				TTCAAAAGAAAGACATGAGGGCTTCTTGAAGAAATGGCTGATACCAAGCCTGCAGTGAAAAATGCA
WI-1172a	17 C A	-		CATGATGAGCCTGGAACATGTTGT
				AGAGGCAGATTGGAAGTGTGAAAAAAATGAAAGAA[G/C]AAGAAAAAAAAAGAGTCTAAATATTCAG
		GCAGATTGGA	CACTTACATTT	CACTTACATTT AAATGTAAGTGCTGCCTCAACTGTTCTTTACCCACTTAATTCTGCAATTTTGAAAACTAGATTGAAT
		AGTGTGAAAA	AGTGTGAAAA CTGAATATTTA	TCCTTTGCAAAACCCTTGCATCATGGATACCCGAGTTAAACCGTTAATTAA
WI-1177	35 GCA	A	GACTCTTT	CCTGGTG
				TCCATGGTTTGGTTGCTACTGACTTTGTTAGCCTTACTGCCCACTATGCATTGGAACATTCCCATATTC
				CAACTAAGCAGGAGTGTTCACAATAAACAACATAGGCTCTTTATTCTCCTTCTTTCATTAATTTTCTT
				TCAC[G/A]TTATTCCCTCACCCTGAACGCCCTTCTTCCTTCGTAGTGACATTTTAAAATCCACTTTAC
WI-1231b	141 GA	•		ACATTCGGACC
				TCCATGGTTTGGTTGCTACTGGTTGTTAGCCTTACTGCCCACTATGCATTGGAACATTCCCATATTC
		GGCTCTTTATT		CAACTAAGCAGGAGTGTTCACAATAAACAACATAGGCTCTTTATTCTCCTTCTTTCA(T/C)TAATTTT
		стссттсттс	CGTTCAGGGTG	CTCCTTCTTTC CGTTCAGGGTG CTTTCACGTTATTCCCTCACCCTGAACGCCCTTCTTCCTTC
WI-1231a	126 T CA	A	AGGGAATAA	CATTCGGACC
		ACATACATAT	•	GAAGGCAGGACTGTTTTGGAGGACAAAAGTAAAATCTTTTATATATTTTTTAATTTTTATT
	 	CCATTATACA	GACCTTTCTTT	TTTTTCAGGCATATAGACATACATATCCATTATACAACAGAAAAG[G/C]GGGCTGGAAAAGAAAG
WI-472	114 G	114 G C ACAGAAAAG	TCCAGCCC	GTCAAGTGAGATTTCAGATATTCTTAAATGCAAGGCTGACAAATTTGGGCTTGATT

		GCATGTCTGTG	AAATGCCACAG	AAACCACTGCAACCTTCAAGCATGTCTGTGTTTACTCTATTTTGTTCCMJAGCCACCTGTGGCATTTC CAAAATATGATAATCTGTGCCACCATACTGCTTTAAACAAATAGAATCTGGCAGCAAAATATAGC AAATGCCACAG ATAAGCTTACTTCTAAATCAAAGGCTACCATCAGTACCTTAGCACATTTAAAAAAATAAAAACCAAC
WI-4/8	46	16110	5 5	AUTGULUA
		AGTACCTTTCT	CTACACATCT	AGTACCTITCT CTACACATCT AGCCATCACAGCAGAGTACCTTTCTAACT[T/CJATAAGATTGTGTAGAGGTTGGAAGGAGGACAGGA
WI-533	29 T	CAACT	T	CTGTTCTGTTGGTATAATGACCCTGTGTCCAGTTAATCCA
				TCACTTATCTCTTTTTTGTGGAGAACACTTAAAATCTAAGAATGATCAATTTCAAATAAAGATGG TAGTGAGCGAACAGAAGAGGTTTCATTGACTCCTAAACTGAGTAC[T/A]CAAAAACGAGCAGGTGCT
WI-601b	112 T A	- A		CACAGTCAGGAAGCAGGTGCTGAGTACAGGAT
				TCACTTATCTCTTTTTGTGGTGAGAACACTTAAAATCTAAGAATGATCAATTTCAAATAAAGATGG TAGTGAGCTJGAACAGAAGAGGTTTCATTGACTCCTAAACTGAGTACTCAAAAACGAGCAGGTGCT
WI-601a	74 CT) T		CACAGTCAGGAAGCAGGTGCTGAGTACAGGAT
				AACAAAAACAGACACCCTCGGCTTCTTCTCACCAGTCCACATGGGTGCCAAACAACAATCCCATTCCT
	107	CTCCTTCACAA CT		CCCGGTAA ACATCCTCCCCACTGGGCTGCCTCCTTCACAACCTCACCA[AG]ACTTGGCTTACCGGGAAGCALAAA
		ACTGCTTGCTT	TTATTCTAATC	ACTCACTGCTTGCTTGTTTAATCAACCTAGCC[G/A]GCTGTCATGTGGGATTAGAATAAAATA
		GTTGATTTAAT	CCACATGACAG	GTTGATTTAAT CCACATGACAG AACACAAAAATGAAAACACACGATTGCTAACAAAGCAGATTCTTTTTCAAGGCACACGTAAAGAT
WI-919	36	GAC	ပ	AATAACTTCAA
				TGCATTCATTATGCACCAAATAATAACTTCTGTACAT[A/T]CATTATTGTATTTCATTATCACAAAAT
<u> </u>				TATGAGTGAGGGATGATTGTTATCCCTATTTTACAGATGAGAACCTGAGACTTGAATTCAGAAGAAAT
WI-991	37 A T	A		GTTCTGCAAAGICACAAAGITAGIGACAGAGACCGGGATTCGAATCCATCAACTTGAAAGGGC
	 	CAGTATCTGA	AGGAACACCTA	AGGAACACCTA CTTCCTGACCTGTTTGCAGTGGATACTGTTTTTGAAGGCTCTGTCTCAGTATCTGAAGTTTTTGTCTCC
		AGTITITGICE	CAAAATGACTT	AGITITIGICI CAAAATGACTT AGCJAGAAAGTCATITIGIAGGIGITICCIGGGCGTTITIGCIACGTTICCATITICIGIAATACACTGC
WI-1011	70(70 G C C C A	5	CGICIIAAGGGAGGGCIIGCAGAGCAIIIAICAGAGGCIGIIIIGCAGGAGGGCAII
				TTCATGCAGAAGGTCCATGAGTTTACAGAATCTCAAGGAAGAAAGGCCCCTAGAGATGACACAGAA ATGAGAGTGGCTTGCTCATGAAAATTGGACAGCATGTTCCAAGCAGAGGGGAACAGCATGGAGAAGA
				AAAATCATACTCTATCCACGTGCAGAAACTGGCAATTAGTTTTGT[A/TJTTACTAAAACACAAATGT
WI-5381	178 A	A T	:	TTAACTTGGGGGTCCACAACAAGGATATGTTGGCAAATGGTATTTCTGTGATG
_				CTATGTATTCCATCTAGCAAAAGCAAGACTATTTGGATAAGTTTCACAAAGATGAGAACAGGTCCTA
				GAACCTCAG[G/A]ATCGAAAGGAAGTTCATCTAGTCCATAGACCCTATCTCACTGACCCAAAAGGTA
-				AAAAAAIAAAAIAAAAGIAAAGAACIIACAICAGAIIGIGCAIIICIIAIIIIGCAAAAAIAAAAAIAAAAAAAA
GLE/C-IM	7007	G A		TAGGAA

			CTATGTATTCCATCTAGCAAAAGCAAGACTATTTGGATAAGITT[C/GJACAAAGA IGAGAACAGGIC CTAGAACCTCAGGATCGAAAGGAAGTTCATCTAGTCCATAGACCCTATCTCACTGACCCAAAAGGTA AAAAAATAAAAT
WI-5791a	44 C G	i	TAGGAA
			CACTCTGCTGTTGTCCATGGGTGCCACAGACTCTTCCAGAAGACCACTTCCACAGATGCAACAGGCCACTTTGAAGGAGCCCAGTTCTCAGCATGTCAAGGTGCAAGAAACCCATTTTGAAGGAAAACCCATTTTGAAGGAAAACCCATTTTTGAAGGAAAACCCATTTTTGAAGGAAAACCCATTTTTTTT
WI-5406c	120 CT	!	ACTIOTCATTICCTTAGAATTICTTGGACTOTGTGAAGAAGGAAAGGAAAGGAAAGAAAAGA
			CACTCTGCTGTTGTCCATGGGTGCCACAGACTCTTCCAGAAGGCCACTTCCACAGATGCAACAGCAGCACAGCAGCAACAAACA
	CCAGGATGTC AAGGTGAGAAGT	AATGAGAAGT	TTTTGAAGGAGCCCAGTTCTCAGCATGAGCCAGGATGTCAAGGTGAAGGAAG
WI-5406b	118 C A A	GTGGGCTCAT	\mathfrak{B}
			CACTCTGCTGTTGTCCATGGGTGCCACAGACTCTTCCAGAAG A/G GCCACTTCCACAGATGCAACAG GCCTTTTGAAGGAGCCCAGTTCTCAGCATGAGCCAGGATGTCAAGGTGAGAAACCCTATGAGCCCAC
			ACTTCTCATTTCCTTAGAATTTCTTGGACTCTGTGAAGAGGAAGGA
WI-5406a	42 A G		99
	TTATTCTCCC	TTATTCTCC ACTGTTAGAAA TGTTTTCTTT ACCAGTATTT	ПТАТТСТССС АСТВТТАВААА ПВТТПСТТТ АССАВТАТПТ ССАТТССТСТССТССССТСТССТТССТТАТТСТСТТТСВВОЈАТТВААААТАСТВВТ
WI-5798	48 G C TG	TCAAT	TTCTAACAGTGTGCTGGTATGGTACTATGTTATAACATGCATAGTTCTATATGGGIATCA
	TCTTCATGAAT	GGACTAATTCA	TCTTCATGAAT TCATCATGAGGGGGCTAATTCA CCTGCTAATAATAATATAAGCACGATTTGTCTTCATGAATTCATCTTTCAGTTT[T/A]TAGATCGGAT
WI-5415	54 T A TTT	TGATCCGATCT	TGATCCGATCT CATGAATTAGTCCAGGCTTTTAGTTGTAATCGAAATTGGA
		TCCCAGAGAA AGTITCTAAAC	VIII OT OTTITAL AT A COMMAND COMMON C
WI-5437	A 1 CIT G	AAATCCAAGA ACAAAATATG	TGTTTTAACCCAGGCAGCTCCCAGAGAAAATCCAAGAGCTJCTAAACCATATTTGTGTTA GAAACTCCTGTGCCAACCACTCTTGATGTGAGTGAC
	: : : : : : :		AAGCCAATTICACATTAGTTGATTTGAATTTTACAGTATCTAATGCATGGGCATCTGTTTCAAC
WI-5481b	WI-5481b 131 A GCTGCAGTCG	TGTCATTTATG TTACTTCCAGG	TCTCTGTTTTTCAAGAGGTAGTATATGTCTGAAAAATCTATTTTGTCATTTATGCTGCAGTCG[A/G]AAAACTTGGAGCCTGGAAGTAAAGACTTGGCTATTTTCACAATTA
	CCAATITCAC	CCCATGCATTA	CCCATGCATTA AAGCCAATTTCACATTAGTTGATGAATTT[G/AJAATTTTACAGTATCTAATGCATGGGCATCTGTTTC
	ATTAGTTGATG	GATACTGTAAA	ATTAGTTGATG GATACTGTAAA AACTCTCTGTTTTTCAAGAGGTAGTATATGTCTGAAAAATCTATTTTGTCATTTATGCTGCAGTCGAA
WI-5481a	29 G A AATTT	ATT	ATACTTGGAGCCTGGAAGTAAAGACTTGGCTATTTTCACAATTA
			TCATGAGTCTTTCTTCAAAGATGCTTGTTAAAGTCCCA[T/C]CAAAGAAAGGATCCCATGGCCTAAT
WI-5492	38'T'C'	:	GAAGATGTACCICCACCITAGGATATTTGCAGACCAA

				TATTITITITITICCAATTCCTGGAGCACACCATGCTCTTTCTATTTCATGCTTCACATTATTTTTTTT
WI-5826	134 T	 		TTTCAAATTAAATGCCACCATAGAAATAATTTTCTAACCAACC
		<u> </u>		CCTTATAACCCAATACTTTTCAGGTGAAAAAGGGAAAA[C/TJACCCATGTTTGCTAAAATACAGG
WI-5546	40 CT A	TTCAGGTGAA T A	CCTGTATTTTA GCAAACATGGG	TTCAGGTGAA CCTGTATTTTA AGTATAACAGCATGACATGTTAAGGGAATTACAAATGCTTGAGTGAAATTCTGATGTGGGAAATAT A GCAAACATGGG TAGAAAATTAAGCGAGAGAGGCA
		GGCACCAGCCT	TGCACAAATTG	GGCACCAGOCT TGCACAAATTG TGTTTGTTCTGCACCTCCCCAACAAGTGGTCAATGAGCCTCAAGGGTTTTGATTGA
WI-5552	97 C	97 CT TTTTAGAGT	CCCAGG	GGGGCTATCGGCACCAGCCTTTTTAGAGT[C/T]CCTGGGCAATTTGTGCACTAGTGTCAGA
				TAAGTTGATTTAAACACTCTGTGCCTCAATTTTCTCACCTATAAAATAAAGATAATAGTATCTAAAA
				AAAAAGAGAGAGAATTAAAAAGTGGATAGACATGAATAACTCTGATGATACTGGTTGTATCCCTGAA
				TCCTGCAATATACACATGATTCAATGAT[C/T]CCATTTTGAAAATTAAGCTTTTTGAATTGTTTTCCA
WI-5836b	161 C	L	•	AIG
			TGAACAGTTGG	
MI 6670	0	GTTCATAAGG	AGAGTAATGTG TC	AGAGTAATGTG TCGGGTATTAGGATGCGTTCACCCTCGATGATGGGCGTTCATAAGGAGGTGGGGAQCTJGACAC ATTACTCTCAAACTGTTCAACAAACACTTCAACAGCG
200	3	500000000000000000000000000000000000000	2	A TACIO CONTO LO TOTO CONTO CO
				CAGGACCTTGGAGCCTTTGCTGTTTGTCCTTCCACCCTCACTCTTCTCTGCCTGC
				CTCTCTCAGGCTTCCTCTATGCACGCGTCTATCTTCTATATGGGGCAATATCCAATGTCCCATTC[G/A
WI-5850b	134 GA	A		ITTTGCCATTTCCTGTATATCAAACAGAGAAGCAGAGGGTGG
				CAGGACCTTGGAGCCTTTGCTGTTTGTCCTTCCACCCTCTTTCTCTGCCTGC
				CTCTCTCAGGCTTCCTCTATGCA[C/T]GCGTCTATCTTCTATATGGGGCAATATCCAATGTCCCATTCG
WI-5850a	92 C	<u>-</u>	1	TTTTGCCATTTCCTGTATATCAAACAGAGAGAGAGGGTGG
		CTATTAATGA	TTCTCTTGAGA	
		GCATCGTGTCA	<u>всатсвтется</u> <u>аасстаааас</u>	TCACACTAATTTGCAAAGCATTCAATTGATTGACTATTAATGAGCATCGTGTCATTC[A/T]CAGTGTT
WI-5612b	125 A	125 A T TTC	ACTG	TTAGGTTTCTCAAGAGAATTATGCTGTTCTTCCTGTAACTCAAGTA
				TGCCTGATTGACACATAGTTATCTGACAGTAAATCATTCTAACA[T/A]CACAAATATCTTATTCTGC
	_			CTGTCACACTAATTTGCAAAGCATTCAATTGATTGACTATTAATGAGCATCGTGTCATTCACAGTGTT
WI-5612a	44 T	A	•	TTAGGTTTCTCAAGAGAATTATGCTGTTCTTCCTGTAACTCAAGTA
		GCCAATTTAT	CATCGAGGACT	GCCAATITIAT CATCGAGGACT TGAGAGCCAATITIATCGGCAATAAAAACTTCCCAAAGAGTCCTCGATGGAGGCATTTCAGAATCGGG
WI-5636	26	26 A CCGCAATAAA TTGGGAA	TTGGGAA	GCAGGGGAGAAGGTGAGAAGATGTGAAAAAC

Jaga IW	103.0			TTAGAAACCTCCATTTATTCTGCCATGGTACATCTTTTTAAGAATCTTTTTTTT
				TTAGAAACCTCCATTTATTCTGCCATGGTACATCTTTTAAGAATCTTTTTTTT
WI-5865b	1 66	A	:	GAGAAGACAGCAACTAAATTCCAGG
				TTAGAAACCTCCATTTATTCTGCCATGGTACATCTTTTTAAGAATCTTTTTTTT
WI-5865	165 T	T A		AGAGCCAGAAAAATGACCAAGACACAGITAJCCAGICICCATCITCAAAAAGGICACATCTTCAAAAAAAATTCCAGG
		CATAGCATGG	CCTAGTAAGTT	
		ATAATATTAT	ATTTG	CTCAGACATTCATTTCATTAGTTGTTAATTTTTGTGTATTTCATAGCAATTTGTTTTGTTTTGCAATTTGCTTTGCTTTTGCAATTTGTTTTGTCAATTTGCTTTTGCAATTTGTTTTGTCAATTTGTCAATTTGTTTTGTCAATTTGTCAATTTGTTTTGTCAATTTTGTCAATTTTGTCAATTTGTCAATTTGTCAATTTGTCAATTTGTCAATTTGTCAATTTGTCAATTTGTCAATTTGTCAATTTGTCAATTTGTCAATTTGTCAATTTGTCAATTTGTCAATTGTCAATTTGTCAATTTGTCAATTTGTCAATTTGTCAATTTGTCAATTTGTCAATTGTCAATTGTCAATTGTCAATTTGTCAATTTGTCAATTTGTCAAT
WI-58/4	9	GACAGAAAAA	AIAIGI	CATECACCEACETICACCTCTCACTTTTCCATCIA/TTTTTCCATCTAATTTACTCTCTTTTCTGTC
		CAGCCTCTCAG AGAGTAAATT	AGAGTAAATT	ACAATGTTCTGCTTCGTATTTCAACTCTCATTGCTTGGATGGTAGTCATAAAATATGGGTGATTC
WI-5752	36 A T	TTTTTCCATC	ATGAAAAA	AGAAAATAAGTAAATG
	 			TTAGCAGAAACAACAAAAAATGTCACAACACTGCAGTAAAGAAGTGTTTTCCCGATAAATA[C/G]C
				CATTAGGTATTAGATAAGCATCCCATAAAACATTGTTGAAAACGAAGCCGAGTTTTCGATTCACACA
WI-5760b	<u>.</u>	:		GTTGTCTGTTTTAACCTCTCTCTAAATCCCGATAAATAGCATTAGGTTTTAGATAAACAAGCAAG
				TTAGCAGAAACAACAAAAAATGTCACAACACTGCAGTAAAGAAGTGTTTTCCCGATAAATACCCAT
				TAGGTATTAGATAAGCATCCCATAAAACATTGTTGAAAACGAAGCCGAGTTTTCGATTCACACAGTT
				GTCTGTTTTAACCTCTCTAAATCCCGATAAATAGCCATTAGGTATTAGATAAGC[G/AJTCCCACGAA
WI-5760	187 G	G A	i	ACATTGTTGAAAACGAAGCCACGTTTTCCGATTCACACAGTTAGTT
		TTCTCACCATG	GGGTGGGATCT	TTCTCACCATG GGGTGGGATCT AATATCTGGCCTTTTTCTTAGGAGGAGATTTCTCACCATGGGAATCTTGIA/GJTGCAAGTTAGAT
WI-5944	52 A	52 A G GGAATCTTG	AACTTGCA	CCCACCCTCACTATTGAGAAGCTAAAAGTGTAAGACTACTCATTTCTCAGTCTTCCTTGCTG
				GAGTITAATGAATCCTGTTCCCCTCCTAAAAACCTCCTGTTCCCCCAACTTCACATTCAGCAGATATT
				CTTTCATGGGTTATTTTGCCCAAGTCATGAGGAGATGCATGTAATTGTGATCATTTCAAGAGTGTGAG
				TAATGCTTGGTAJC/TJTTGCTCTGTGCCGTATCTGCTCCAATCACCCATTCCACTTATTICCIALIAL
WI-5967b	148 C T	L		GCTGAATGAAACGGTTATATACAG

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- 1967 - 1967	165 C		· .	GAGTITAATGAATCCTGTTCCCCTCCTAAAAACCTCCTGTTCCCCCAACTTCACATTCAGCAGATATT CTTTCATGGGTTATTTGCCCAAGTCATGAGGAGATGCATGTAATTGTGATCATTTCAAGAGTGTGAG TAATGCTTGGTACTTGCTCTGTGCCGTAT[C/T]TGCTCCAATCACCATTCCACTTTATTTCCTATTAT GCTGAATGAAACGGTTATATTACAG
}	23 62	: : : :		GGGTAAGATCCAGAGCCACAGGTGAACTCGCCGGTATTGAAGTCTTTGGGCCCA[G/CJGTCTGTAATGATGATGATGACTGCACTGAAACCCCCCTCTTCTCTGGAAGTTCCAACTGTGCACTGAGACCCCATTGTAGGGAAGTTTGACTTTCAGCAAACCAAAAGAAAG
WI-6141	80	CTTCTTAATTA AGCATCTACA CAGGTACTT	TGAAAACCCCA GAACAGTG	GACTCTGTCTCAAGAAAAAAATTGAAATTGAATAATTAAT
WI-6450	45	<u> </u>	CCAATGACTT TTGTTTGAAAT ATTCTATATCT GTGTGGTACTT TGTCACA CT	TGTTTGAAAT ATAGGACAGTTTTTCTTCCAATGACTTATTCTATATCTTGTCACA[T/G]AGAAGTACCACACTTTCA TGTGGTACTT AACAAGAGCCAGGCTATGCCAGGGTGGGATTATTTTCACGGTCATGGTAATATGCATGTAAGACTA TTTTACTGGCCTTCTTTTAGCATAAAACAAGGTATTGGTCTATTCAAAAACAAAC
WI-6461	88	 	-	CAGTTGTCATGTCCCTCTGGTACTAGAATATAGTCTTTATAGAATATGTGGTTTAGAATAAAGCCACA AATTATTCTATAAAACAACA[C/T]AAGGAACGAGGCTCAAAAGTGGAACAAAACGGCCTTAGTTTC TAAGTGGAAGACTAAGAACGATATAGGAAAATATAATCCGTGACCTCTTA
WI-7466c		TTTCACAGTC	AGTCGCATGCC CCTGG[G/A]AA AGTCGCATGCC CCTGG[G/A]AA AATTTATAATT ATTGTTCCTTT	GAAACTATCCTITAGTGGTGCCACATITICTATITCTGATTCTTGGTCACACAGGGACTITCTGGGCT ATGAAATAGTCTATTCAGTGAACTAGTTATCATAAAAGACATGCAAAAACCTTTTCACAGTCTTTGT TITTCACAGTC AGTCGCATGCC CCTGGGAAJAATATCTCACAAAATTATAAATTGGCATGCGACTTTCTGATTTAGCCTGACAGG TITGTCCTGG AATTTATAAATT ATTGTCCTTT
WI-7466b		GACTITCTGGG CTATGAAATA 80 T C GTC	GACTITCTGGG TGTCTTTTATG CTATGAAATA ATAACTAGTTC GTC ACTGAA	GAAACTATCCTTTAGTGGTGCCACATTTTCTATTTCTTGATTCTTTGGTCACACAGGGACTTTCTGGGCT ATGAAATAGTC[T/C]ATTCAGTGAACTAGTTATCATAAAAGACATGCAAAAACCTTTTCACAGTCTT TGTCCTGGGAATATCTCACAAAATTAATTATAAATTGGCATGCGACTTTCTGATTTAGCCTGACAGGA
WI-9814	104	C A	1	TGCTTTTTAAAAATAACAATGACCACCACCTGACACATAGTCTGTCT
WI-9720b		55 A G	-	CCTCTAACAAGAAAACTTGACTTCCTCAACTCAAAATACCCTTCTCTAATAATTT[A/G]AGTAACCA AAATATTCCTTCAAATAAATTAATCTTTTAATTAGAAGAAGCAACAGTGTTAGAGGTAGTACATTCA CCACC

				CCTCTAACAAGAAAACTTGACTTCCTCAACTCAAATACCCTTCTCT(A/G)ATAATTTAAGTAACCA AAATATTCCTTCAAATAAATTAATTTAAT	TTTAAGTAACCA GTAGTACATTCA
WI-9/20a	4//	A G	:		
WI-9825	123			CACGCTCTAAGGCAGGATGTGGCTTATGAGATACTTTGCATTGTCTGTC	CTTGAATCTGCC ATJGAGGATTAG TTAGTTTGCATT
WI-9748	74 (:		TGTTTACCCTTT ATCTTTCAGAAT
WI-9943			:		STGGGCACTGTT AATGTATACATT CATTTAGGGA
WI-9891					ACCACCCAAGAC AAAAAGAGTGT GCCAAATCCAAT
WI-9897b		 			TTTTCCTCAAAC !AAATTTTGAGCA
WI-9897a	83		;	CTCAGAATTATTCAGATCTTCCCCAAATGTCATGATTCTTGTTCTCAACATCTTTTTTCCTCAAAACAAAATTTGAAAATTGAAATTGAAATTTTGAAATTGAAATTTTGAAATTTTGAAATTTTGAACAACAAATTAGAATTAGCATCAATTAAATTAGAATTAGCATTAATTTTGTACCCACAATTA	TTTTCCTCAAAC AAATTTTGAGCA
WI-9935b	 	- Y	<u> </u>		CTGGAAGGAGT CCAAGAAAAGCC
WI-9935a	42		1	AGTCTGACCCTGGAAAACTAGAAAATTAATAACGTGTTGCA[C/T]ACCTCACCAGAACTGGAAGGGAGGGGGGGGGGGGGGGG	GAACTGGAAGG
WI-9983		64 C			TCCTITGTCTTGA IGGTCAGGGTAA AGAGAGACATAA
			1		

		10		ATATCAGTGGGTTGAGTATACAGCAATCTATTTTGTTTATGTGTGCTATAAATCAATGGTTCTA
WI-10019		139 A T ATGTAGCAA	TTGATTACTGT GCTTAGGGGA	ACATTCAAATAAGATCTTTTTGCTTCTGCTCAGATGCTTTCAATGATGTGATGATGTATGT
		GCGAGAAAAG	GACTGTTAATT	TTTACTTCATTGTCATCTTGACTCGTATTAAATAAATTATGTTAACTGGCTCTGAAAAAAAA
WI- 10020b	122 T A TTT	AAATCATGAC A TTT	TATTTAATCAT	AAATCATGAC TATTTAATCAT AGACTAATGATTAAATTAA
				TTTACTTCATTGTCATCTTGACTCGTATTAAATAAATTA[T/C]GTTAACTGGCTCTGAAAAGAAATTA
-ix		CTCGTATTAA	CTCGTATTAA AGAGCCAGTTA	CTCGTATTAA AGAGCCAGTTA AGACTAATGATTAAATTAA
10020a	39 T	39 T C ATAAATT	AC	CCTTAGA
				TCTGAGTCTTTCTGAGACACTTGCCATGGTCAAGGGTAGCAGGATCAGGGAAGGCATTATAATAATAAT
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10064b	1700	170 CT TTTACATG	GCCAGATTTC	
			GAGATGCTCTG	TCTGAGTCTTTCTGAGACACTTGCCATGGTCAAGGGTAGCAGGATCAGGGAAGG[C/AJATTATAATA GAGATGCTCTG AATATAATTTGCAGAGCATCTCTCTCTATGCACACAGATATTGTGGTGACACTCTGTTTAATCCAGTA
W.		GTAGCAGGAT	CAAATTATATT	CAAATTATATT TCCCTACTCCTTTAGATATATTGTGTTTTACATGCGAAATCTGGCTTCAGAAAGGTTAGGTGTT
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		TOTOTOTO	ATTETTGTTGT	ATTCTTGTTGT ATTCAATAGAATGGAATTCTCGTGTCCCAAACTCTTAIT/CITTAATTCCATTCAATACAAGAATTTATAGAA
WI-10289		29 T C CAAACTCTT	TTAA	TATGCACCACATGCCACAAAGACACCCTTATTAGT
		TGGCACTTAG		AAGAAAATCCTTGTGGCACTTAGAACATAGTTTATTCTTTIA/NACCATAGGGGTGTGTGGCTTATCT
		AACATAGTTT	GCCACACACCC	GCCACACACCC TITACCTGGCATGGCTTTAGGTCCTGTTTATAATTTGGTATCTTTTTGCCACAAAGAGTCTGTTCTGAC
6 CI - I AA	2	CTGTTGATTT	GCTTTGGAATG	CTGTTGATTT GCTTTGGAATG AGCAACGTGTACAACTTAGTGAGGTGTAAATCAGAAGCATCTATATTCACCAGTCACCACCTG
		СТАССТСТАТТ	TATCCAAAAGT	CTACCTCTATT TATCCAAAAGT GACTATAGTCTGTTGATTTTCTACCTCTATTCTCTTATT/CJTAAACTTTTGGATACATTCCAAAGCAT
WI-10316	104	104 T C CTCTT	<u>=</u>	CATGGTCACTTCCAGTTATGAAAGGATGTTTAAAAGCCCCAGCC
				AGTGAGTTGTGCACATTTTGGAGACATTCTGTGACCCCCAACTTAAAACACTTCTCCCACA(C/T)AC
WI-2572	61	61 CT	:	AAAGTTAACACTTCAGTTACCAGGTGATTGAGCAGA

		TGAAGCAACC	S A	GAGGAACTGCCTGAAGCAACCAGGTCTTGTT[C/T]CTACCCCTCTTAGAGAATAATATTGTTT CAAGATATTAT GAGATAGGGAGGAGCAGCCTGAGGACAGTCTGGGTTTTGTTTCTACCCCACTGGAAGCAGAATATCC TTCAAAGCTTTTCCAGTGAGTCATGTTGCTGCTAAACTATATGACCTGATGGATTGCCTTTCAGGG
WI-10368	310	ст аватсттетт	¥	
		CTGTCTCAGGT	GGGAGTTAGGA	GGGAGTTAGGA CCTCCCATTCTCTGTCTCAGGTATGACTCCCAAAGTCAACTTCTTGACTCCTAACTCCCAACTCTCGGTGCTGTCTCAGGT GTCAAGAAGGTT TCTGCTTCCCAGGGGACGCATCTGACACAGCATTGCTTGC
WI-10391	32 /	32 A G ATGACTCCCA	&	TGATGCTGCGTGACCTCCAGGATA
		GTTACCCAGA		AGCGATGAAATTTATATGTTATGCCTGACTTAGCGGGTGCTCAATAAATA
		GTCTTCTAATA	TCCA	TTCCAATTATTAATACTAGAATTTTCACCAACAGAATTTTTTAAACATTTTAAGTTACCCAGAGTCTT
10567c	146 /	146 A C GCAA	GTAGCT	CTAATAGCAA[AC]AGCTACTGGAAGCGGCAAGAATTTAACCCT
				AGCGATGAAATTTATATGTTATGCCTGACTTAGCGGGTGCTCAATAAATA
ż	- · · · ·			TTCCAATTATTAAT[A/C]CTAGAATTTTCACCAACAGAATTTTTTAAACATTTTAAGTTACCCAGAG
10567b	82 AC		:	TCTTCTAATAGCAAAAGCTACTGGAAGCGGCAAGAATTTAACCCT
	_	GGGTGCTCAAT	АААТТСТВТТ	GGGTGCTCAAT AAAATTCTGTT AGCGATGAAATTTATATGTTATGCCTGACTTAGCGGGTGCTCAATAAATA
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10567a	E0 T	гсттт	TAG	CTTCTAATAGCAAAAGCTACTGGAAGCGGCAAGAATTTAACCCT
				CGTTGGGAATATTTCTATCTCACCTAAATTATGCGTGATTAAAAATATACATTTTAACAAACTTCAAA
		CAAACTTCAA	AAATCCAACA	TTGCTTTAAGTACTTTA[C/G]GAAGACCTTGACTGTTGGATT111GAGT11111C111A111C11AAAA
WI-	84	84 CIG TACTITA	GICAAGGICII	ALIGOLITANG GLOANGGIOTI AAAACATGCATATTAAGTTGTAAGTGTACTTATATGTAAGTGTAAGTGTAAGTATGAAGATGTAAGTTATATTAAGTTATAAGTTATAAGTTATAAGTTATAAAGATGTAAGTTAAAGATGTAAGTTAAAGATGTAAGTTAAAGATGTAAGATGTAAGTTAAAGATAAAAAA
				CGTTGGGAATATTTCTATCTCACCTAAATTATGIC/AIGTGATTAAAATATACATTTTAACAAACTTC
		GGGAATATTTC	GCAATTTGAAG	GGGAATATTIC GCAATTTGAAG AAATTGCTTTAAGTACTTTACGAAGACCTTGACTGTTGGATTITTGAGTTTTTTCTTTATTTCTTAATA
-jw		TATCTCACCTA TTT	TITGITAAAAT	IGTTAAAAT AAAACATGCATATTTAAGTTGTCAGCAAGATGTACTTATATGTTAATTATCTGATATCAGCATCCCTT
11153a	33(33 C A AATTATG	GTAT	TATGTATT
		CACAAATGTA		GTTGTGAAACTCCAGTATCATTTCCCTCAAACCACGCTTAAATCACAAATCACTTTTTCTTTC
		ACAAGAATTG	ССАТВВСТВТА	
WI-2616	125	125 T C ATCC	GTCCCAGT	ACTACAGCCATGGAGAAAAGCAATGTAGTCAGCAAAATGTTAACAG
		CAAGTGAATT	13	
		ATGACCAAAA	TTTGAGGTTTT	TGACTCAAAGGAAACACACACAAAAAGTTTCACCAAGTGAATTATGACCAAAATGAGA(C/T)AAAT
WI-11163	58 (58 CT TGAGA	<u>⊢</u>	TTGTTAAAAAAAACCTCAAATGAAAGAGACAAATATAGTTCAAAGATTCAGGTTCAATATTGT
			,	ACCTACAAAATAGGGATAGTCATGGTGTTTGGCAGACTTTTCTTTTCCTTTTTGTT/GJCTCTTA
				GAATCCATTITGCTTTTTGGCCAGCATTCCCTCTCCCCATATTTTAAGGAGAGAATTCACCTTTTTCT
		(CTGTTGGATGATCACAGGTTCTGCTCTTCCCAATCCAGAGGCAGGTACTATTCACCCCATGGGGTCAT
WI-10656		59 T G	•	AGAGAGGATTAAACAGGGTGATGCCTGCAATGGGAATATTTGAAAACC

		TTAACCAAGA	CTAACTTAAAA	CAGCATAGAGGCTGTTAGTGACCTTGAGTTTAGATTTTCTCTATCGAGAAAGGCAATAAGTAGTAAACTTAAAAAAAA
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				CAGCATAGAGGCTGTTAGTGACCTTGAGTTAGATTTTCTCTATCGAGAAAGCAATAAGTGAAAGTAA
		AATAAGTGAA	AAACTCTTGGT	CTGACTTGAAAAAAAAAAATTTAAGCCT[A/G]AAGTAGTGCTTTTTAACCAAGAGTTTTTCATTCTT
-K		ပ္	TAAAAAGCAC	TITITITAAAAAAGAGCAGACATTITATCATGTGTTCTGATAATTITITITATATTITIGAATGAGGA
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				CAAGTGCTTGGACCTTGGATAGGTC[A/G]ACCGGCTGAAGGTTGGACAGTTGTTGGTTTAGGTTAGG
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WI-10685	25 A		;	AAGGITAGTGTCTCTAACTTTAATGGGCATA
	 	_	CAATCTCTAAA	CAATCTCTAAA AATAACCTGTGGCACATAAGGCAAATACTGAGCCCCATACAGAGTGTTTTATGTTAATATTATGAAA
		тессстетос	TTCATGTGTAG	TGCCCCTGTCC TTCATGTGTAG AAAGTCAAGAGAACAAGATGATATAGTTCTGCTAGAATACTTGAAATCTGATGCCCCTGTCCAAGG
WI-10686		133 CT AAGG	ACACA	C/TJTGTGTCTACACATGAATTTAGAGATTGAATGAAAATGGCAAAATTCAGAAAAGGG
				GGTAGGATGATTCTAGAATGCCACTTTACAGCCACTGAAATATATTGCCTCCCAAATGATTCTTTCT
		AAATGATTCTT	AAATGATTCTT CTGTTCTCACA	CTCAAAGAG[T/A]TTTTTAAGTTATCTACTTATTTATATTCTGCTTTTTTCAAAAAGAATGTGAGA
	_	TCTGCTCAAAG		ACAGTACAAAATGTGTTCAGTATAGCAAATTAAAATTAAATTAAAAAGTAAGAAAAAGAAAG
WI-11175		77 T A A	АА	76660
				TAGAGAGGTCTTTCAGTTTCAGGGTTGGAGGGGTGGTGAGGTTCAGAGCTTCTTAGAAAGCACTGGC
				TATGTACAGAAAGATAAACTCTGAGAAGAACTCAGTTCTAAAGTGTTCAGTCTTTGCAAATGCTTA
		TGCAAATGCTT	TGCAAATGCTT GGCATTITGTA	TGAGTTTTC(A/G)TTTCCTCCTTTACAAATGCCATCAATTCCTCAAGGAAAAAAAA
WI-10694		144 A G TATGAGTTTTC AAGGAGGAAA	AAGGAGGAAA	
		TGAATTCATCC	TGAATTCATCC TCTCTTTCTC	
		AGAAAAACAG	AGAAAACAG TCTTGTTGTCA	GTGAATTCATCCAGAAAAAAGGC[T/C]GAATGACAACAAGAGAAAAAGGATAAAAGGTTTGT
WI-2716	23 T C	T C C	TTC	ATACGACAAGTGGCTCAAGCAATTTTCTCTGTCCCAGTGCATGGAGCAGTG
				CAGGCCCAACTCTGTCATTAAGTGTTTTAGAACAGACCCTCAGTCACACAAAGTTTCTCTTGTATGT
		TGACTCTCAAG	TGACTCTCAAG GCACTGCCAGC	GCCCACCATAAACAGTTACTGGAGGATGACTCTCAAGGCCATTCTAG[T/C]GGCTGCTGGAGTGCTT
WI-10719		115 T C GCCATTCTAG	AGCC	TTCCAGCCTGCTGCCCATAACTAA
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		-			GCACACGAAATTGATTAATATTGGCTGACTTTGAGGAGGAGAACAGGGAGTTGAGGTAAAAAGGGTG
					AAAAGAAAAACTTTCACCTTT[T/C]ATTTTAAAGTAACATAAAGGTATTATGTACATTTTAAGTGAT CAAAAAAAAAA
11204b	88 ⊤	<u>C</u>	•		GCAACATC
					GCACACGAAATTGATTAATATTGGCTGACTTTGAGGAGGAGAACAGGGGGGTTGAGGTAAAAAGGGTG
			GTAAAAAGGG TG	TGATCACTTAA	ATCACTTAA AAAAGAAAAACTT[T/A]CACCTTTTATTTTAAAGTAACATAAAGGTATTATGTACATTTTAAGTGAT
<u>×</u>			TGAAAAGAAA	AATGTACATAA	TGAAAAGAAA AATGTACATAA CAAAAAATTTTAATTGGGAAGAGATTTAGTGAATCAGAAAATAAGTCTGAGGAAATTATTCAGAAG
11204a	807	<u>۲</u>	80 T A AACTT	TACCTIT	GCAACATC
				AATG	ACATGTATTTCCTTTAGTGGTCAGCCTTCCTTACCCCCAAGAATATCCCTGGTTTATTGCTGTGTCTTC
			GCTGTGTCTTC CATAACAGAA		ATTGGTTCACT[C/A]TTAAAGTTCTGTTATGCATTGTTCTTGAGTCCACATAGGTGTTAATCATTCCA
WI-10732	_	S	80 C A ATTGGTTCACT CTTTAA	CTTTAA	CACCACTCTGTTTAAACTGTC
					TAGICTITICITTGTACGAGTGTCATAAAGAATTACCACTCTGTCACATTTTGTAAAAGATAGCACAG
			сеттететтт		AGAGAAGCATTACAGGGCACAGCACAAACATGAGGTTGTGTTTTCTGTATGTA
			CTGTATGTACA GA	GAGTGACAATC	GTGACAATC CCATTAGGATTGTCACTCTCATATAGACAGAATTCAGTGGTGGTGATTTGAATTCCACACGTGGA
WI-11206		A	127 A T ACTC	CTAATGGTTGG ATAAGTCTA	ATAAGTCTA
					GAAAAAAAAGTTTTAATTGGATTGCTTAGTTTGTCTTAAATTTGACCTACTTTCAGATTTATTT
					ACACAGAGAGAGACAGGATTGCTTGAATTAGTATAACATTCTTTATTCCAAGCCCCATTCCATGT
WI-11215	68	c_{T}			
					ATGAAAAATGCATTAGAAGAATTGGAGGATAAAAATTGAGAGAATATTCCAAAAAAGTAGAGAAAAA
				GGTCCTCTAAT	
<u> </u>	_	_	TCCAAAAAGT	TTTTCTACACT	TCCAATATTTGAATAATAGTTATTCAAAAAAAAAGAGGCAAGAAAAIGAAGGGGGAAGAAAAAIGCAA
11219b	89 (5	89 G A AGAGAAA	TTCT	AAAACATCTC
					ATGAAAAATGCATTAGAA(G/A)AATTGGAGGATAAAATTGAGAGAATATTCCAAAAAGTAGAGAA
					AAAGAGACAAAGAGATGAAAAATAGGAGAGAGAGAGTGTAGAAAAAATTAGAGGACCATTCTATACAG
-iw					TCCAATATTTGAATAATAGTTATTCAAAAAAAAAGAGGCAAGAAAATGAAGGGGGGAAAAAAATCCAC
11219a	18 GA	5			AAAACATCTC
					AGCCACAGTGGAATCATTTACACTACCGAAATCAGCAAATGCTAAAATTGGGGGCTTTGGATTTTTGT
					TTTTGTTTTTCCATAGACCCCACCGTTGAACTATTGTTAAACATTTACCAGCATACCACTGCGGCTG
<u>*</u>			CATACCACTGC	CCTGGTAGCCA	CATACCACTGC CCTGGTAGCCA G[G/A]TCACAACTTGGCTACCAGGAGAACCTGACACAGACTTCGTAATTGCTTTCACAGGCTACTGG
11222b	136	Ö	136 GAIGGCTGG	AGTTGTGA	AAAGCC

-iw		CCACAGTGG	I	AGCCACAGTGGAATCATTTACACTAĮC/TJCGAAATCAGCAAATGCTAAAATTGGGGGCTTTGGATTTT TGTTTTTGTTTTTCCATAGACCCCACCGTTGAACTATTGTTAAACATTTACCAGCATACCACTGCGG CTGGGTCACAACTTGGCTACCAGGAGAACCTGACAGACTTCGTAATTGCTTTCACAGGCTACTGGA
11222a	25 CT A	L A	GCTGATTTCG	AAGCC
		TTTATGCCATA CTAGATGTATT TTAATTCATTA TGCTAAGAAA		TTGCAAGTTTGTTTTATGCCATATTAATTCATTACACTC[C/I]ACATCATGTTTGTTTATCATTAGACATTGCATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTGCATTAGACATTGCATTGCATTAGACATTGCATTGCATTAGACATTGCATTGCATTAGACATTGCATTGCATTAGACATTGCATTGCATTAGACATTGCATTGCATTAGACATTGCATTGCATTAGACATTGCATTGCATTAGACATTGCATTGCATTAGACATTGCATTGCATTAGACATTGCATTGCATTAGACATTGCATTGCATTAGACATTGCATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTGCATTAGACATTAGACATTGCATTAGACATTAGACATTGCATTAGACATTAGACATTAGACATTGCATTAGACATTAGACATTAGACATTAGACATTAGACATTAGACATTAGACATTAGACATTAGACATTAGACATTAGACATTAGACATTAGACATTAGACATTAGACATTAGACATTAGACATTAGACATA
WI-10775	39 C	39 CT CACTC	ATATGATG	GGAACCACCATATGGATGAATGTGTTTAATGAGGCAAGCAA
	-			TTGCATGCATTTATACGAAAAGGAATTAAAATATCTTCCTTATAGTTGAATTTTAAGTAAAAAATAAA
				GTTATACATATACAAAAGTTGTAAGTATAGTAACAAATGAATTAGAAAATTTGGAGAAATTGGACAAATTAT TAGTACAGGAATCAAATTTGGACTATGAACA[A/C]GACATAGTTGCTAAGGATATTCCACAAATTAT
WI-11226	165 A C			ттсатба
		GCAAGGGAGG		SIGNATURACIA GEORGE A CONTRACTOR
	(CATTTACA	CIGGIGACAIC	CAGIGGCIGGCIACIGACAAAACGIAACAICGIGGCAGGIGGCAAGGAAGG
WI-10778	52 A G		AGAGAIGGAC	
	- (TTGAGGGACCC	TTGAGGGACCC TGGGACACACTGCTCTAGACC[C/TJTCCCAGGGTCCCTCAAAGGTGGGTGAAAGGGCCACCACC
WI-10/89	2	ZI CI GCICIAGACC	1999A	THE ACTION OF AC
			CAAACCCTAAG	CAAACCCTAAG ACAGAAAAATGCCTAGGTCTTGTAGCAAGAGGAAAGCATCTTCATGGGCAGGAATIJUTIJATTT
		CATCTTCATGG	AAACACAGAA	CATCTTCATGG AAACACAGAA CTGTGTTTCTTAGGGTTTGTGGCTGGCCATCAGTTCAGCTCAGCCCTIGTCCATGCCTGGTCCAGCCCTIGTCCAGCCAGCCCTGGTCCAGCCCTGGTTCAGCAAATGATGATGAAAAAAAA
WI-10810	28 C	58 CT GCAGGAATT	AIG	ICCG AACIACCI CI AGAAGI CAI GCAAAGAAAA GATGA
				GGACCAAACAGAATTACTTGGCA[T/C]AGGGTTTCTTAAAACTATTTCTGCAGAACATTAGTAAAGT
				GACTTCTAAAAGGCTATAATATTTGGATACATTAGGCTCATTATGAATCTCAAAAGGAGCATGTAGT
WI-10828	23 T C	: 0	•	AGGGCATATCTAA
				TATGCCTTCCCAACGAGCCATCCACGCTGCTCTTAGCACAAAAAAATAGAATACATTCTGAATG
-			CCTAACTGCAG	CCTAACTGCAG GGCACATTAATCTGCAGGCTCTCC[G/C]TTTCTAAGTCACCTGCAGTTAGGTCTGCAGACACTGTGTA
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WI-10832	91 G	91 G C AGGCTCTCC	A	TAGITICGG
		<u> </u>	TGGCCCTATAA	TGGCCCTATAA GATTTGAGTATTATCAAAATTGCCCAAAGACCATTAACAAGATTTAATAGTTAAAGGCCAAAACTATA
		GTTCAAAAGT	AATTGGTATTA	AATTGGTATTA AAGAATTAACTGTTCAAAAGTGTGTTAAT[C/T]CTTAATACCAATTTTATAGGGCCACCATTAACTI
WI-10834	96 C	C T GTGTTAAT	AG	CTGAAGAAGGTCAGCATATGCAACTAAATTTCTAAAGTCCAGT
				GGATGATGTTCTGTGGTCCCTTTA[T/C]AAAGCCTCTTGCATCCCAAATGTGTAAATTATTTTATT
WI-2287	24 T C	<u>د</u>	-	TGGTATTTCTCGCTTACCCATAGTCACCTGTCAAGTGTTCCACCCT

		TGTTACTTTGA		
		тсттвстст	GCAAATCACAC	TTCTTTGCTCT GCAAATCACAC TGGAGGGTTAGAAATGCAGGTGGCATCCTAGAAAGGTCTCAGGAGCTTTAGAATAAGTTGTTACTTTGA
WI-2296	81 A G GA	ବ୍ୟ	AGCTAACTGG	TTCTTTGCTCTGAC[A/G]CCAGTTAGCTGTGATTTGCAGAAGGTTACA111G111G111G
	!	GGCACAGAAG	GGTTGGGTCAA	TTTCATCATGCTGTTTCCCTGGAAATTTTCCTTTATTGAGCGGGGCGGGTGGTAGGCACAGAGGC
WI-2300	5	// G CCAGICAIAC	ווואאאמרא	CAATGATCCCCCAACATTTCCAGGGAAAGGTCTGGTCTTGTTCTTCCCAGCTTCT[G/T]GTGGTGGCT
		<u> Gтстт</u>	CAAAGATTGAC	CAAAGATTGAC GTCAATCTTTGACATTCCTTGTCTTGCAGCTGTATAATTCCAATCCTTGCCTCCAGCTTTACATGATGT
WI-2371	55 G	55 GT CCCAGCTTCT	AGCCACCAC	TCTCTCCGTGTGTCTGTG
				GGGGGCACAATTTAGCTACAGTGCATATTAAAAAGATAACATAGAATATCATAATAACTTGGTTTAC
		GAACATATTT	TCACCTTTCTA	TGAAATCTGAAAACTTAGGATGAGTGAACATATTTGTAGAAAAATTACTATCCAA(A/C)CTGAATTC
		GTAGAAAAT	TTTATTCTGAA	AGAATAAATAGAAAGGTGAATCATCTTATATCATTAAAGAAGCTAAATTATTAGTAACAATCLLLA
WI-2395	122 A	122 A C TACTATCCAA	TTCA	CATTTACACAAACCCA
	_			CACCAGCCACCCTACAACCTCCTGTGGGGAGTCTGGCTTTGATTATTTGGGGACAAAATAATTT
				CAGCTTGAAGAGAGATTCCAATCACAACTTTCTAAATAATAGACACCAAAAATTCCCAATGCTCTAA
			-	ATAGATGGACTCAACCCCTTCTCCTGCAAGAGGCAATCGACGAACATCACAGIGIGIAJGCIGIG
WI-2437c	192 G	A		GTGCCAAGGACGCATTATG
				CACCAGCCACCACCACACAACCTCCTGTGGGGAGTCTGGCTTTGATTATTTGGGGACAAAAATAATTT
				ATAGATGGACTCAACCCCTTCTCCTTCTGCAAGAGGCAATCGACIG/AJAACATCACAGTGGGCTGTG
WI-2437b	179 G	- -	:	GTGCCAAGGACGCATTATG
				CACCAGCCACCACCTACAACCTCCTGTGGGGAGTCTGGCTTTGATTATTTGGGGACAAAAATATTT
				CAGCTTGAAGAGAGATTCCAATCACAACTTTCTAAATAATAGACACCAAAAATTCCCAAT[G/A]CTC
				TAAATAGATGGACTCAACCCCTTCTCCTTCTGCAAGAGGCAATCGACGAACATCACAGTGGGCTGTG
WI-2437a	128 GA	Α	-	GTGCCAAGGACGCATTATG
		GCAACCTACT	AACAACTCTGC	
		GACAATTTAA		TATTGGTCTCA CAGTAGGAAACGGGTTCTTCCTTAGACCCTCCAGAAAAAAAGCAACCIACIGACAAAIIIAAIII
WI-2440	71	71 G A TTTTAGTT	O	GTTG[G/A]GTGAGACCAATAGCAGAGI1G11ACC1GCAGAAC1
				CTGTAACCTACACATCCTCTGTAACCTCTAGGTTACTTGTAATACAAAACACAATGTAAATGCT
		TGTTTAGGAA	TGGTTACAACT	TGTTTAGGAA TGGTTACAACT ACATAAATAATTGTCATACTATTGTCATAGGAAATAATTTTCAATGCACAGTTGATTAATCCACAGTTAATCCAACACAGTTAATCCAATAATAATTAAT
		ALMAIGACAM	GIACCAMACAI	
WI-1356	123 7	T C GAAAAA	5	AAACCACGAATG
				ACAGTTAAGAAAAGGCTGCAGCCGTTGCAGAGTCTGGGGGGGAGAAGA(C/A)AACGAGATAAAGCATG
		CAGAGTCTGG		GCAAAGACCACGCTGAAAGTATCCCCAGGGTGCTGTATGTGCACATAGAAGATCACTTACCTCAGCA
WI-2886	4610	46 C A GGGAGAAGA	TATCTCGTT	TAGGAGGAGGCTAGGCAAGGAAAGGTGTCAGAAGAACAGAGGAGCG11

				CCTGAACACCTGGAGCACTTCCCTTGGACACCTTCATTCTTGCTGGAACTTTGCTGGAATGCTCTTTTTCTTTAGATTGCTTCAAAGTGACCTTCAAAGTGACCTTAGAATTTAGATTTAGATTTCATTTAGATTTAGATTTCAAAGTGACCTT
WI-2906b	77 T A	•	•	CCTTAGAGTTGGTTGCTGACCAACAAA
	((GACACCTTCAT	AGAGCATTCCA	GACACCTTCAT AGAGCATTCCA GCTCTTCCTCTGGACACTTTCTTTTCT
WI-2906a	ν Ος	50 A C I C I G C C C C C C C C C C C C C C C	פפראאפו	CULTAGAGILIGGILIGGICAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA
				TACTCCTCATTCCTCATGLCCCTAGACGTACTCAGATTTCCATGCCTTTGGAGGTTTGGAGTTGGAGTAGT
WI-1736	175 CT			GAACTTACTTAAGGACAGTGGTTTTCCATCTGTCTTCCA[C/T]AGAGATCTAGGGTGTCTTGGAACC ACCTTGG
				AATACCCCACGTCCTAACACCCATCACACTGATCATCAGGTTTTAACATATTAATCTGGGGAGG
		GCATTGAATT	CACTAGCAATG	CACTAGCAATG ACACAAACATTTAGACCATTGAATTGATTCCATGTGGGATACCATGTACTTATATATTATTACATCATG TTAAAACTGAAG CA[G/A]ACAACTTCAGTTTAACATTGCTAGTGATTCCATGTGGATACCATGTACCTTCTTACATCATG
WI-1851	136 G	136 G A GTGTTAAGTA	ПС	TGA
0000	C	CCCAAAACAC	GCCACTATAGG ATTGACTAAGA	CACTATAGG FIGACTAAGA CTGATGTTTGGGAAGCACTGTCTTACATCTCTAAATGTCAGCACCCAAAACACAGAGACCCGG/AJT FIGACTAAGA CTGATGTTAGTGGCAGTACCTGAATCAGTGGCAGGCACCCAAAACAAAC
	1			ATGGATCTGGTCGATTATAGTCCCAGATAAACAGCCTTCTCCCCGCCCCCGGGATTATTTACT
		TITCTCCCTT		TAAGGGTTTAGCAAATTCACCTGACAAAGAGTTAGGTTTCAACATTGACCCTCATAAAGTGATTTTT
		CTTAAAGAGA	AAAGTCGAATT	CTTAAAGAGA AAAGTCGAATT TTCTCTTTTCTGTTTTCTCCCTTCTTAAAGAGATAGTQ[Q/A]CCAGAGGCAATTCGACTTTCTGT
WI-1754	177 G	177 GA TAGTC	GCCTCTGG	AGCCACAGATT
		ACAGATCTAT	TGTGATAGTTT	ACAACACAGCAAATTCAACCACAGATCTATTAGATTCJT/A]CACCCATCTCAAAACTATCACATCAA
WI-3167	37 T	V	TGAGATGGGTG	TGAGATGGGTG AGAAGCAAGAACATATTACTGGTGAGGAAGCCAAATTCAA
				CAAGCACACATTCAGGCAGTGGGCAGGTAGGGAAGGTGGGCAACTTGCGCAGCAGAAGAAGAAG
		GTGGAGTGGC	GTGGAGTGGGC TCACTCAAACT	
WI-3208	140 G	140 G A AGATAAAGA	AGGCTTGG	ATAAAGA[G/A]CCAAGCCCTAGTTTGAGTGACACTGTGGGGGATTCAAG
		CTOOTAGO	AGTTGAGATTT	AGTTGAGATTT AGTTGAGATTT AT TO A TO A TO A TO A TO A TO A
WI-1775	47 C	CTTTTCTCTG	GTAAA	AATCTCAACTGACATCAGTGTCTCTGCCACCCCA
		AGCATATTCA GA	GAGGACTTAAA	
2400	u u	TTGATTTCCTT	AAGGAGCATTT	TTGATTTCCTT AAGGAGCATTT CTGCCCTTTACATCCAAAGCCAGTTACTCGAGCATATTCATTGATTTCCTTACATTGAGATTTCCTTAGATTTCCTTAGATTTCCTTAGA
WI-3402	2000	TACA!	9	

		CCAAGTTGTA	ACGAGCACAA	CCAAGITGTA ACGAGCACAA TCTGGTTCCTCCAAGTTGTAGCATTCAGAAGTC[C/T]CTCTTAGAGGTAGTTGTGCTCGTCGTTAAAA GCATTGAAAAACTTCAAAAAAAAAA
WI-3416	33 C	33 CT GTC	AG	GAAATGTGCAATGCTTGCTACCTCTGACGCACACALAALIAAAICCCAIIGCCIAAAAAAAAAAA
		TTCTTAGGCCC	TCAATTITCCC	TICTTAGGCCC TCAATTTCCC AAT[C/T]GAAGTCATGGGGAAAATTGATGGAAATTGGAAAATGGAAAACAGACAG
WI-3453	70 C	70 CT ATCAGAGAA	CATGACTTC	AATTACAGTTTACCAGGGACACAATCCCACTTCCAGAGCCATCATCTGTAAAGAC
				CATGCTAGGTAGATCTGATCATGAAGTTTGAACAAACTTAAATCATCAAGTGTGTGT
WI-3474b	109 GA	\ \ \	1	GICAGI I I I I I I I I I I I I I I I I I I
				CATGCTAGGTAGATCTGATCATGAAGTTTGAACAAACTTAAATCATCAAGTGTGTCAACTGGTTTGA
		CTAATTTTAGC	CAACCATCAAT	CTAATTTTAGC CAACCATCAAT GTCAGTTTCCCTAATTTTAGCAC(A/G)GTATTTTAATGAGGTGGTGGGGAGAAAATTGATGGTTGCG
WI-3474a	90 A	90 A G AC	TTTCTCCCA	TAGTTGAGTTTTCTGTCCACC
		сстеветтст	GGGTGACCCTG	CCTGGGTTTCT GGGTGACCCTG TTTGACCCCATACATGAGAATAAAACCATAAGAAATGGTGGAAAAATAAAAACGGGAGAGAGCTGGG
WI-3502	79 C	79 CT GGATGTCT	тсстса	TTTCTGGATGTCT[C/TJTGAGGACAGGGTCACCCCAC
		GGTTTCTAACC		TCACGGCAAGTTCTGCAGCAGTGTCCTTGACTCCTGCCTG
		TGGATATAAA	CCAGTGCAGCC	TGGATATAAA CCAGTGCAGCC ATAGTTCTGTGAGCCACCTAAACTCGTTTCCTGCTTAAGTTATCCAGAGGTGGTTICIAACCIGGAIA
WI-3600b		146 G C CATCT	TTCCAT	TAAACATCT[G/C]ATGGAAGGCTGCACTGGATGAGGTCACAAA
				TCACGGCAAGTTCTGCAGCAGTGTCCTTGACTCCTGCCTG
		CCATGCCCCTG	GGAAACGAGTT	CCATGCCCTG GGAAACGAGTT ATAGTTCTG[T/G]GAGCCACCTAAACTGG111CC1GC11AAG11A1CCAGAGGTTGAGGGTCACAAA
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				TAAATCATGCTTATTTTTCACAAGGTAATCCACTCACAATAGGCAATTGATGTGTGTG
				ATAGATGGTTGATAGGAGATGGGTTGTTAAAGACACAATTTACCTTGTGTGTTTCAGGCAGAAATAG
WI-3678	125 G	GT	1	ACTCTCTCTGTGTAATCACTGAATGAGTTCCAAAAGCCTTTATGTCTTAC
<u> </u>				AAAGCGATGTTGAGATACCACATTCCATGAAAAGTAAAAACACACAC
				T[A/C]AAAAACTACTATAGTTTATGAAAATGACTTCCAAAATTCAGAGAAAAGTCACTTAAACAGG
WI-3687	67 A	67 A C	•	ATTICTCAATTCATTCCAGAATACTCCTGTCATTCTTAACTTTGACTGCACAG
		CCTCAGTTATG	-,=	TCTAAAATGTGAAACCAAAGAATCCTGACACGACCTAACTGCCAGTCCTCAGTTATGTATCAAATGA
		TATCAAATGA	GGCTCACCAAT	TATCAAATGA GGCTCACCAAT AAAAC[T/C]ACACGGTTCAATGAAAAAAAATGATTGGTGAGCCATGTCCCCTTATTTAATGAAAA
WI-3735	72 7	72 TICIAAAAC	САТТЕТТТТ	GATCTTGGGCAATTAACTC

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				GAAAAAGCAGGAAGCCAGGCAGGACAAACTTTTGAAAAAGTCTTTCAGCAC(C/I) I
WI-1819	51 C		1	CAGATTAGCGATTGTTTGACTTGTCCAATTAATGAAATGTGGAAAAAAAA
				GGCCTATTCACATGACACTGGGCCAAGATCTTGCTTCCTTTCTTT
WI-3746	116 G	G A	:	GGCA
				AGCAATGAGTTAACTCCTTACATGAACAGTCATTTAGTCTTCCTGACAA[T/C]CGGATGTACCTAGT
		ACAGTCATTT	TAAGATAACC	ACAGICATIT TAAGATAACC ATGGTTATCTTATCTGACAAGGACAAGGACACTGTGACACAGAGATGATTGTTACTTGAACCAAAGACACAGT ATACTACTACTACTACTACTACTACTACTACTACTACTAC
WI-3867	49 T	T C CAA	ATCCG	CATC
		TGACCAATGTC	тсетсестетс	CAATGACCAATGTCTTTAGAAGCAGIA/CJGGAGAGGACACCGACGAGAGCACACAGGAAGGAGTGAG
WI-3898	25 A C G	၁	CTCTCC	GTGAAGATGAAAGCAGTGTGACGCAGCACAAGGTGAGGAAGAGCAAGGGTTGCTGGCCACT
				GGACCATTGTCCCTCAGAAGTACATTCAAGCCCTGGACGGTGCTGTCCTAACACTGTGACCTCAGGCAAGTCATGTTCCTCAGGCAAGTGGAAGTTATCATGTGCTACACTGC
WI-3901	114 A G	5	:	AGIGITATANIGCIGCAL
				CTGAGGAGATTGATGCTACTTTACCTGAGGAAACTTTTATTACCTCCCCTGAGTTTGTTGCCTTGCAGCTAGAGCTAGAGCTAGAGCTAGAGGAGCTATAAGAGCTTAGAGAGCTATAAGAGCTAAAGAAGAAAAAAAA
	,_	AAGACTCACA	TCTAGAAGCAA	TCTAGAAGGAA ACTCAAGTCCCAGCCGTGCTTAAAGGTAAGGT
WI-3914	066	CTC	TGAAGGATGG	CAAAAGAG
		CCAAGAGCGT	AACAGCAATA	
		CTATGAATC	ACAGGAACAA	CCACTCCCAGGCCAAGAGCGTCCTATGAATCATGAJCATTTGTTCCTGTTATTGCTGTTCACAGAGI
WI-4019	33 G A A		AIG	GGCAACICIIGCAAAGGGGAGGGGIACAAAGIGAAIIIIIAAAIGGGAAGAAAAGGGAAAGIGAAAGIGAAAGGAAAAGGAAAAGGAAAAGGAAAAGGAAAAGGAAAA
			TGAGTTCCTAT	TAATTCACATTGCTCTTGTTTGTGCATTTATTGCTTCTCTTATGTAAACACAATCACAAGAGAGG
		TTGAGGTCTTA	TAAGTGACAAT	TTGAGGTCTTA TAAGTGACAAT TCTTAGTCATTGCATG[A/TJTGTATAACAATATTGTCACTTAATAGGAACTCAAGCAIAG I A I G I G I
WI-4091	84 4	84 A T GTCATTGCATG ATTGTT	АТТВТТ	ACATTTATTGCTAACAGCAG
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		GCAACAATAT	TITICTAATAT	ATCTGTCCAAGTTTTTGTTTCCTATAATTTAGCAACAATATCAACAGAA[A/G]GGCTATATTAGAAA
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		CGTATTAAAT	T AAGGCAGCAA	A[T/C]CATCATGATTTGCTGCCTTCTTTCCAAATTTACTACAAATTGTATTGTCACATGAGGCACATG
WI-4177	68	68 T C TACCTA	ATCATGATG	ATCCCATTAACCCAAATAG
		CTCCCCAAGTT	ATATGTTGATT AGGTATAACA	GCCATGAGCACAGAGGCTGAAACCACTCCCCAAGTTAGTCAATATAAAAAAAA
WI-4199	51 4	ACAAAA	ATATGTG	TTATACCTAATCAACATATAAATGTTATAGATTAAACAGICCACAGCAAACAA
				TTCTGCTGTCACTGGTCTGCCTGT[C/T]GGTCTGTTCCTTGTTCCTTTCAATGTTCACTGCTTGTAC TTCTGCTTTCAATGACTTTATATGGGCACAGAAGAGGGGCTTTGTAGAGGACCAGAGTTTCTT
WI-5163	24	24 CIT CTGCCTGT	CTGTCACTGGT AGGAACAGAC	GGAAATTGCAACATTGGGCAT
				TAAGTGCATTAACTGTACAAGTCCACAAATACCTCTTCCACCAAGTGCTAAAAGCAGTTTTAATAACA
				GGTTCAATATGAGTCTTGTGAAACAGGGTGGGAAGGATCCTGTAAAAGG[A/G]IAAAIAIIGIIII
WI-4250b	117 A	A G		CCATAATATTGAAGATGTG
		TCAATATGAG	CCTTTACAGGA	TCAATATGAG TAAGGGA GGTTCAATATGAGTCTTGTACAAGTGCCACAAATACCTCTTCCACCAAGTGCTAAAAGGAGGIIIIAAIAACA TCTTGTGAAACGGAAGGAAGGAAGGATAAAAAAAAACAGGGAAGGAA
WI-4250a	94 GT	G T AGG	TCCTTCCCAC	CCATAATATTGAAGATGTG
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		TGCTCCCCC	VT AGTTGTGTAAG	TGCTCCCCCAT AGTTGTAAG TAAATGTCCTGGGGAGATAATAGGAAAAGGTCCCATCCCTCTGATACCTTGGTTGCTCCCTCTGGATACTCGACC
WI-4255	9	G C CACCT		[G/C]CCTTACACAACTTGAAGTAGGCCCCATCCAAACACIGGICAGAAGAGIAAIACIGICAAA
				ACAGCCTCTTCAAATGGCACAATCAAAAGCACCAGTAAAAGCAGAGGCAAAATCTGGJC/1]CTCAC
WI-4256	57	57 CT		CATTGGAAAAGTCTTCTGAAGGATAAGGGAGTGAATGACTGCTAGAAGAGAATGATGATIGGGAT
	!		<u> </u>	AGTTCACTGCCTAGATGAGTAGACCATGTTGTCTTTGTTAAATGTACATGGGCAGGACCGGAAATGG
				GATGIC/TJTACTATAGATAATCTTTTTAAATGACTCTTCTTGGTCTCTTCAAGATATCACCAGCCAC
WI-4325b	7.1	CT	•	CCAGGACACTGCCATATCT
	 			AGTTCACTGCCTAGATGAGTAGACCATGTTGTCTTTGTTAAATGTACATGGGCAGGAC(C/T)GGAAA
				TGGGATGCTACTATAGATAATCTTTTTAAATGACTCTTCTTGGTCTCTTCAAGATALCACCAGG
WI-4325a	58	CT	:	CCAGGACACTGCCATATCT
				TGGGCAGAAGTCGGGTATGGCAAGTCAGGGTGGGTTAACTTGGATGCCACTTCTGCCTGTCACTTCT
				CTAGACTCTTGACCCTGCAGGAGGATCCCTGGCCTCCTGAGTTTTATCATCTCCCACCTCCAGCCCAG
				GGCCCTGTATCTGTTCAGGCCC[A/G]GAATCGTCACGGCTCACAACTGTGGGAGGTAGGAATGACGA
WI-4347	158 A	A G	;	5
				COAGTOTAGGCTGCAAGGACTTCAATTCTGGGGCAAGTCCTGGTGTTGTGCTAGGGTCAGAGGCAGCG
				ACCTGAGGGACACACAAACCAGTGGGACACCAGGGGTACTTGTATCACQTI/CJCTCCCGCAACCCCA
				AGCAGCACAGCTTGCAGCTCCAGGAAAGACTCCTTACTTCCACTTGAGAAAAGGAGAGGAGGAAAAAAAA
WI-1936		117 T C		AAAGAGGACTTTGACACACACATGGA

				A A A A C A A C III C I I I I I I I I I
				TAGATITITGATTGATGACAATAGGGAAGCCTTTGTTAAATTGGGTTTGATGAAGAAGCAATCCCAGTTTGACTGGA TGGAAAGGGAAGAATTGACAGAAACCAAGAGAGTGTTGAGGGGCAGCAAATCCCAGTTTGACTGGA
WI-5204	54 C	Т		ATATAGAGTGATGTCAGGGTTG
			AGATAATTTG	AGATAATTTTG TTTTCCCTTATTTATTTAGGAAGCAAAATGTTTCATACAGGACCTTAATATTTAACAGACTCAAAAA
WI-5215	70 A	70 A G CTCAAAAA	TTCGC	GTAGTCAAGGTTTTAAAGGCCAAATGAAGTTGACTAAAGACAAT
		\$	AATTAAAGAA	CCCTGAAATGTGCTTTGCTTCTCCTCCAACTCTCTAGGGAACTTTTTCCATGTCAGGTGAAGGTTTTGA
14/1 4440	1 10	GAGATGGGGT	ATCTTTACATG	AGAGTACTITAATTAACTTGTATCAAAGAGATGGGGTATATAA{T/GJAAAGAACCA1G1AAAGA111 CTTTAATTAGTGAATTICATCAGGGCTCTTCCACTGTCTATCAGTAAA
0	J	AGTTGAATTA		
			ттсствттат	CCTGTTAT ACACATTTCATTTGCTTTAAGTTGAATTATTCAGAAAATTATAGTTCC[C/TJCAAGTTCATGCATAA
WI-4456	49 C	CT TATAGTTCC	GCATGAACTTG	GCATGAACTTG CAGGAAACACCAGGTTGGGGCAATTGATTGAATTGT
		TCACTGITATI		CTGAAACTAATGAGGTGCTAAATCACTGTTATTTAAAATTATCCTTCC/A/GITGAAATTGGTGAAA
WI-4461	49 A		CAATITCA	GGTCAAAGAATGAAATTCCCACTTTTAGATTTCTGGAAATTTTATTTGCGATGATAATGCAATGGGC
				CTACTGGATTTTACTTTGCTCAAGCCAGACACACGAAAGTATATAAAGAAAACAGTTAGTAATCTT
WI-4465b	75 G/	Α		TCACCTTT[G/A]TATTTCTCTTACCTCAGGGAATC
			GGTGAAAGATT	
		AAGCCAGACA	AAGCCAGACA ACTAACTGTTT	CTACTGGATTTTACTTTGCTCAAGCCAGACACGGAAAGT[A/G]1A1AAAGAAAACAG11AG1AA
WI-4465a	41 A	41 A G ACACGAAAGT	тстт	CTTTCACCTTGTATTCTCTTCTACCTCAGGGAAIC
				GGGGTTAGGACCTCGAGATCTTTCAGAAAGCACAATTCAAACCATAATGGCAGTGCACAGGTAACCA
		GAGTGAATAA		GTGGTGAGATGCTCTGAGTTCAAGGCTGCTGACATGGTCATGGCTGAAAAAAAA
W/ 4040b		160 T C TAATGCCA	TGAGAGGTGGG	TGAGAGGIGGG GGAGIGAA I AAA I GAA AAAA AAAAAAAA
221	-!			GGGGTTAGGACCTCGAGATCTTTCAGAAAGCACAATTCAAACCATAATGGCAGTGCACAGGTAACCA
			<u> </u>	GTGGTGAGATGCTCTGAGT[T/G]CAAGGCTGCTGACATGGTCATGGCTGAATATATGTTGAAGAAAT
		CAGTGGTGAG	CCATGTCAGCA	CCATGTCAGCA AAAGGAGTGAATAAATGAATGCCATAATCTCTGTGTTTTTTGTCCCCACCTCTCACACCTTTCCCTGG
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		CCAAGTAAGT	TTCTAAAAATA	TTCTAAAAATA TGAGAGATTTTTGGATTATTCATCCTCTGCAACACTCCAAGTAAGT
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WI-4529	64 1	64 TIC AAGATG	AAAA	CCCATCCAGGTCTAGGGTCAATGGCATCCATGGGTCGCTGGACAAGATGGGGCCTAGAATGATTTTTTTT

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		GCACCATGTGG	GACAATGCAGC	GCACCATGTGG GACAATGCAGC TGCTCGGTAACATTGCAATAAGCACCATGTGGCATCG(A/GJTGCATTGCATTGTCCAGTC
WI-4540	110 A	110 A G CATCC	CATGCA	AAATGAGACATCCTAT
				AGCAAGCATCTGGCAAGCCTCGGTGACCAGAACATTAAATTCACCAAACACCCCCCCTGCTCCAAATGT
				AATAACTTTATGGGAGACAGCATTGTAATTCAAATCAATAAATGACTCGGTTTGGCTGTACAAGCAT
WI-4582	226 T			AAACAGAACGCTTGCAAAATATGGT[T/C]CCTCCTTGCTAGAAACCATTTGAT
				CAAAGGTTAGTTTAACTTGGGGGGCAAACACAAAAGTTATGAGTACTCAATAACCTATGTTCAAGGG
		GCCATTGAGG		TAACCAACACCTTTTTGCCATTGAGGAAGTGTTTAAAG[G/CJAGAGAGATGACCCATCCATTCCTGG
		AAGTGTTTAA	GAATGGATGGG	GAATGGATGGG GCTTCTTATATGACACCATACTATTCCACACAGATGTGGAGTCATTTATTT
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		CACTGTTTTCT AGAAAAAGAG		TGTTTAAAAACCATACAGTTTGTGCTGCTACGTTGTTAGAGCAACCCCAGAAAATTAAAACGCCTAC
		ATTGACCGTAC	ATTGACCGTAC AAGAAGGGAA	CATITITICACTETITICTATIGACCGTACTTG[C/IJICTTTGCTTTTTTTTCCCTTCTTCTCTTTTTTTTCTG
WI-5248b		99 C T TTG		CCCTCTTTAACTATT
				TGTTTAAAAACCATACAGTTTGTGCTGCTACGTTGTTAIG/CJAGCAACCCCAGAAAATTAAAACGCC
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				CATTGGTGGGTCCAACTTCTCGGTGACATTACTCTGTTGACTTTGCTCTGAAGCAGAAAGCACTGTGA
		TGAAGCAGAA	CAGGAGATGGG	
WI-4596	T 69	69 T A AGCACTGTGA	CCTAATAATG	ACATATCTCTGAGCCCATCAACTATTTGACAAGATTCTCCTTTTTTAACAA
				GAAATAGGGCAAAATTAAGACTTCAATAATTAAGAAGTCTTGGGAAAAGGATTTGTGATGATCATTG
				AATCTGTTTAAATACAGAATTAATACTGAATACCTGTGTGAATCATTGCTTT[A/CJTACCATGTACA
WI-5252	119 A	c		TATTATATGAATTAACAATGTAAAATAGTATGACTAAGAAATATTGGGCCCT
				TGCAAAAAAGGAAAATGATAACCAGGACTGTTGTTCAAGCAATGCTAGAAAATTATGCCTA[A/G]C
		GCAATGCTAG	TTAGGTGCTTA	CAAGTAGACAACTTAAGCACCTAAGGCAGAATGAAAGTTTCTCTCTTGTCATTAAGTCCTCTATICA
		AAAATTATGC		ATTACCATTTATCGGGGTAATTAAACACTGGAAAGTAATGCCAGGCTAATTGTTAGATTATGTAGATAT
WI-4606	61 A	AGCT	TGG	TACACGTCTTTGCTATGCT
				CAATGAGAAGTTACCAGATGCGGGCAAATTAAGCATATGAAAATACCAAGTGTTGGCAGAGGCATG
		CACCATCA	COAGGGGGAGA	
WI-5257	77 C	C A GCAAAGAGG	2 5	GCAAAT
			TGTACTAGGTG	TGTACTAGGTG TCACTGTTTAGAAATTTCTTCTTCCTCAGTGAGACCATTCTTTCCGAATG[C/J]GATGATTTCTTGTA
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WI-4649	20 C	50 CTTTCCGAATG	AATCATC	AAAATCCTCCCAATATTG

		GCACAAAGAA	CTGAAGTGTTA	GCACAAAGAA CTGAAGTGTTA AACTGTGTGTGTATGTATTGTGTATTTTCTGGAGGAGTCAGGTTACTCTCACTAGATCATAAAGGTGAAAAGAAAAGAAAAAAAA
WI-4650	148/	148 A G GTCTCTT	5 5 5 7 9	TTATATTGCTTTT[A/G]CCAAATCCAGTTTAACACTTCAGTAACGTT
		TCCAAAAGTG	E	ICAACAGTG AATTCAGATTTTGAACATACGTCGACATTTTGGAAAAATTGTCCAAAAGTGATTAGGTGAAAAAT
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7.707-104	70	200		ATGATGTCTATCATGAGGAATTCTGTAGAAAATTTTCACCTGGCAATTGATTCAAATAAAGTTTGTCC
				TCACCTGGGAAACTGCTTATCTTGATGTCAGTGACATTTCTTTTCTTTTGACGGAAGAAAACTTCAA
WI-4698	135	C G		C/GJTTCGAGAAGGCTTAGATTATATCGCTGAAGCCCATTCTG
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				GACTACAGCGCACAGACAGGCATTGTGTGGCTTGCACAGGTGTTTGGTTTGTTT
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		TGTTTACGTTC	CAAATTACCTA	TGTTTACGTTC CAAATTACCTA CACCCAGTCCACTTCACCTGTTTACGTTCCCTGTCTCATCTICAICINCINCIAGGIAAIIIGAGIIICAAGIII
WI-2028	176	176 T C CCTGTCTCATC GAA	GAA	TGTGG
				ATGTGTATGAGCTCCACATTCGCAGATTCAACCAACTATGGATAGAAAATATAGTATTCCCAGATGG
		GGGTGCTAGA		GCAGCCCAAGGATCAGAGGGCTAATTTTTAATTTTCCAAGGTTATACAGGACCAGTGTTGGAATTTT
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				TTATGGATACATGTTTTCTGGTGGAAGGACAAGAGTTGAAGCAAAAGGACAAAGGAGAGATCAACTGGG
				TAGAATAACTCATCGATCCCACCAGGCCTCCTTCCACCATTCTCCATCCTACTTTCTACTCTGA[1/C]
WI-4745	131 TC	T C	•	AGGCAGACTTATAGGAAAAAGGGA
				OCACGACTATGTCTTCAGAGTCCCTGGTACTGACAGAGAGGCTTTGAGGGCCATGTGGCGCCAAGA
			GGGTAAAGAT	CCTCCTTCTGCGGTTTCAGTGAAAAGACGATGAACTCCTTCATCTTCTACAGCAGCTGGACTTCACCA
		CCACAGTGCA	CCACAGTGCA AGAGTGCAGGT	r cagtgcaccaaggacjt/cjggacctgcactctatctttaccccttccgacacagatgctgagatgcc
WI-2034		150 TICICCAAGGAC	8	ACACTCTGAGTG

				TELEGROUP TO
		TAAATTTOOTOT		TCAGGIGACAAGAAAAGICACATTTGAACTGTGTAATCACTGTGCTTTAAAGTGTGTAAGTATTAA
		GTGTGTAAGT	AGAAACAT	ATTAGATTTCTATTTTGATA[C/TJTGATGTTTCTTTCAAGAGGAAATTTGTGTAAGAGGATTCCCATT
WI-2038	155 C	155 CT ATTAATTAG	CA	TGCATTTCCATTGGC
		GATGCAGAAG	GAACTCTTCTG	TCATTGACTTTTTAGAGTTCCTTCAGTCTTTATGTCTTATTTCTTTAGGAAAAACTAGGCTAGGAGAA
		ATAACTAGAA	ATAACTAGAA GTTATTTTCT	CACAATTCAGGTTCTCCCAGATGCAGAAGATAACTAGAAAATGC[C/T]GAACAGAAAAATAACCA
WI-4782	113 C	C T AATGC	сттс	GAAGAGTTCATTATGGTTTTTTCCAGAACGATTAC
		GCATAGAATC	GGATAAAATT	AGGAGAGTTTTGGCTCTTTCCGGACTCTTGGAATTCAGTGCATAGAATCATCTTGCTAAGTTCC[A/G
		ATCTTGCTAAG	ATCTTGCTAAG AAAATTTTGGC	JTGAAAAAAATTATGCCAAAATTTTAATTTTATCCAAACTTTAAGTCGAGATTATAATTGATATT
WI-4788	65 A	65 A G TTCC	ATAA	AAAAAACTATATGAGTCTTTCTAAAAAGATGGCGTATCACTCTA
			CTACTCTTTCT	CTTACTTCCAAAGTGTTTTCCCAGAGACCACTTCATTC[T/C]TTTTTGGATTATGAAATAGAAAGAGT
		TCCCAGAGAC	ATTTCATAATC	AGGTGTTATTATTCCTCTTTTACCAAGGTGAAATTGAGGCTCAGAGACAAGGTAGATGATGAGCCCA
WI-5300	38 T	38 T C CACTTCATTC	CAAAAA	AGGTCAGTGACAGAGCCA
			ссттссттта	TATAATGTTTTGTTCCATAGTTGCCATAGACTAGGTTATGTCCACACACGATAAAACAATCTTATATA
		TGATAATGGG		TATGTATGCCA ATAATTTATTCAAGAAGGAAATATACATATGGGGTGATAATGGGGCCCTGTT[G/T]CTCTGGCATA
WI-4818b		121 GT GCCCTGTT	GA GA	CATATAAAAGGAAGGCTAA
		TTGCCATAGAC	TTGCCATAGAC CATATGTATAT	TATAATGTTTGTTCCATAGTTGCCATAGACTAGGTTATGTCC[A/G]CACATGAATAAACAATCTTAT
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WI-4818a	43 A G	၁ဗ	AATAAATT	CATATAAAAGGAAGGCTAA
		-1		
			GATGCAAAGA	GATGCAAAGA TTTTCCATTTGTTTGATTCTTTTGTCTGAGCCCTTAGATCTCTTAGATCTCTAGAAGGIIAAIIAAIIAAIIAAIIAAIIAAIIAAII
	,		AGAAATGAGTC	TTCCATTTCTG AGAAATGAGTC AATATAATAATATGTTTTTTTATATTTTCAATTTCAACAGGAATTCCATTTTTCAAGAATTCCAGGGAGATCTAAGAGGGAATTTCCAGGGAATTTTTTTT
WI-5317	- 65	וכ	GIAGCAGGI C	ALA INCIGARACIONI I COLLICIONI CO
		AAGATTAAGA	AAGATTAAGA CCTCATTTATT	AAATGAGTAACCCAAGTTACTCGGCAAGATATAAAGATTAAGAAAAGATAACAAGA[G/A]ATGAAT
WI-4888	56	56 G A AAAGATAACA	CA	AAATGAGGTAGTGGAATTGCTTGATAACTGGAGTAGTGCCTT
				AACATITITIAACCATGCTACATITIACAAACACTGAAAAGACAG[A/G]AAAAAAAAAAAATITITG
				CCTCAAAAAGCTCTTAAGAGATTATGTAATAAAAGAAAAATATGAATCAGAAAAGGAAAGGAAAT
WI-5328	44 A G	 D	-	AGAAACACGTGATACTGGAAGGAG
				GCCTTTTTGAGTTTTAAGTCTTTTTGAGTGTGTCTTTTTTTT
WI-4897	93 A	G		CCCCAAAAGAAAAAAAGGGCTTGG[A/G]GATAAACACATCTTC
				CCCTGCTATAGGTCAGTTTTAAAAATCCT[G/A]CCTGCTATGGTTTGCTTGTTGAAGGCCACATCCACT
WI-5345	29(0	29 G A		GAGGTATATTCTGTCTGCATTITCTATATCACTCAGCTTTCAGATCCACTCCATCAACTIGCAG

				TATOCCAACATTAACCAAT
			CAGAGATTGGTA CAGAGAATTTC	AATAAGATGG CAAAGTTGGTA TGCATGTTACTTCTTGGAAATCATAAAGGGATCTGAGAGCCIACAGIAIAIAGCATACCTTAACTA TACCTTAACTA CAGAGAATTTC CTTTTTGAAAATTTGAAATTCTCTGTACCAACATTGCTTTTC TACCTTAACTA CAGAGAATTTC CTTTTTGAAAATTCTCTGTACCAACTTTGCTTTTC
WI-5370	143 T	T C ATAAAACAA	AAA	GATCTCCTTCATCCTCTCCAGAAGAGGAAGAGGAAACACAAAGAAAACGCCTGGTGCAGAGCC CAATTCCTACTTCATGGATGTGAAATGCCCAGGTGAGGAGACGGCTTGCTGTAGTGGGGAAAGCAC
				TGGACCTCAACAGTTGGAAAATGTTGTAGTGTTAGCTGTCTCGTATCCTTGAAGCTGTGCAGCAGCTCTCAACATTTGAATGTTGCAAAATATTTCCCTGATACTCTTAAAATTTGAATG
WI-9711b	423 T	A		GATCTCCTTCATCCCTCTCCAGAAGAGGAAGAAGAACACAAAAAGAAAG
				CCAATTCCTACTTCATGGATGTGAAATGCCCAGGTGAGGAGGGGCTTGCTT
02110	300			CAGTITCTTCGCCTGTGGAAATATTTTCCCTGATACTCTTAAAATTTGAATG
N.1-27-170				GGAGGAATTTCAGGGTGAATGGACTGCTCCCGCTCAGTTCACTGCTACTCAGGATTCAGGATT
				ACTEGICTEAAGGTGTACAGGTGCCCTCTGTGCCTATTCAGCAATTCTAATGATCTCTGTGACTT
				AGAGGTGAATCAAGCTTTTCATTCCAGTGTGCTACAGCATCTGATAG
WI-9702c	345	G A	•	CONTRACTOR ATTREAM TO CONTROLL CONTROL
				GGAGGAAI I I CAGGGI GAAGGI GAAGGI GCCTCTGTGCCTATTCAGCAATTCCCTACTGGTTATCAGGAI ACTGGTCTGAAGGI GCCCTCTGTGACTT
				AGAGGTGAATCAAGCTGATATTTGCAACTTCTCAGTTTTATTCTACTACAGCATCTGATAG
WI-9702b	344 CT		-	TTATACTAGCTTTAAGAGGIIIICAIICAGGGGGGGGGGG
	i			GGAGGAATTTCAGGGTGAATGGACTGCTCCCGCTCCTGAGTTCCCTACTGGTATGTAT
				ACTGGTCTGAAGGTGTACAGGTGTCCCTGTGCAGTTTTATTTA
				AGAGGTGAATCAAGCTGATATCATTCCAGTGTGCTACAGCATCTG
WI-9702a	179 C			CTITIALACIAGO I I PAGAGGO I PAGAGGO I GA TATAGATATAGATATAGATATAGATATAGATATAGATATAGATATAGATATAGATATAGATATAGATATAGATATAGATAGATAGATATAGATAGATATAGATATAGATATAGATATAGATATAGATATAGATAGATAGATAGATATAGATATAGATATAGATATAG
				TATAGTATTTAACGAAGCCIAGAAGCACACAGAGTGGTTTGATTTCTTTTTTAATTTTAGTGGA
				ATATAATAACTI I GAAGCCALCATATT TAATGTT AAAATATTAAGTTTTTGTAAAAGGAAAACCATCTCTG
TIGH-				GGGIIIGGAIIII
A003N21	1 49 C/	C A		TGATTACCTCTCAATCIALITGI
				AGAATGGCTACTTCATAGGCAGAGCAGCCACTTTTGGCAATACCTAATATCAG
		<u>o</u>		AATCAAGAAGAAATAGAGAACATAATGATAATGACATACTTCTAGGTTAGTAGA
-d2h				ATACTAACAAGTACAGIGAIAAGAAIAAAAAAAAAAAAAA
A004V30	0 203 CT	C 1	-	AAAG[C/G,T]CTTCTAGGTTAGTAGAAAAG11

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			<u></u>	GGATAAATCAGTACAATAATGGGGAUUTTAAAAUTGUTGTGTGGAGCCACAGCCCTGGGCTCTGGA CCCCGAGGCAGGGGAGAGGGACAAGGGATGCTCAGTGGTGGTGGAGGGACAGGCACAGGGACAGGGACAAGGGAAAGGGATGCTCAAGTGAGTG
TIGR-			<u> </u>	TGGGGCATGGGAATGACCAGGTTCCCACATCATGCAGGGGGGCCTGTAAAA
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			<u> </u>	CATAGAAAGGAGTCTTTGAGTAI I GIACAGTI I GAAAAAAAATTAAAAAAAAAATTTTATAGAAAAAAAAAA
TIGR-				CTIC/TITTCACCATTTAGTTTGATTATCATCTGGATTTTCACTCAAGATGCAGCTCCTAAGATTTCACCATTTAGATTTAGATTATCATCTGGATTTTCACTCAAGATGCAGCTCCTAAGATTATCATCTGGATTTTCACTCAAGATGCAGCTCCAAGATTTTCACAAGATTTTTCACCAAGATTTTCACAAGATTTTCACAAGATTTTCACAAGATTTTCACAAGATTTTCACAAGATTTTTTTCACCAAGATTTTTCACAAGATTTTCACAAGATTTTTCACAAGATTTTCACAAGATTTTTTTT
A005D24	- 'C	<u>;</u>	,	GTTATGTTAAATTCATAAACTCCTTCACCTTTAATAATTAAGGAAACAAI
۵	2)			CATAGAAAGGAGTCTTTGAGTATTGTACAGTTTTGAAAATTCTCTTTGAGATAATIGATTTGAGAAAGGAAAATAAGAAAAACCCAA
((<u> </u>	TGTGGCTTTCAACCTCCATTTACCTCTTGTCATTCCAACAICIIIAIAGAGGCTCCTAAGATTATTG
IIGH-			<u>, </u>	TTTCTCTTTCACCATTTAGTTTGATTATCATCIGGAIIIICACICAAGAAT
920200	103		•	TTATGTTAAATTCATAAACTCCTTCACCTTTAATAATTAAGGAAACAAA
70	2	3		TGAGTCTGAGCACGAGTTGCAGCCAGGGGCCAGTGGGAGGGGGTCTGGGGCCAGTGCAGCGAGCAG
				GCATCC C/GJTTAGTTTCCACTGCCTCCTGTGACGTGAGGCCCAIICIICACICIIICACTTCTTGTTTCCTGTTGGA
				TCAGCATTCTTAGTAGTGGGTTTCTGTTCTGTTGGATGACIIIGAGAIIAIIG
L C	7		,	GTTGTTCAAATGTTCCTTTTAA
003/35))	5		GGTTTGTCTGGCATAGCCATGCTGGTAGCAAGAGAAAAAATT/C)CAACAGCAAAAAAACAAACCAACAACAAACCAACAAAACAAAAAA
				CAAACCAAACCGTCAACAGCATAATAAAATCCAACAACTATTTTCATTGTGTATATTACTACAAAA
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WI-8997	410	41 G A 0000	AGTGCTCA	AAAGTTCAACAACACCAGAACIGIGIGIGIGIGIGIGIGIGIGIGI
				TATACCACTTCCATTTGATGATGGAATGCTGCIGIICAIGACCAACTIIA
				AGCACCCAGTTCATGATAGGCAGTTCAGGTCATAIGGIGAUIIGAUGAGGAGTAGTTATCTGCAGA
				TTTCCACCAAAGCCCAGTAACAGGCCAAAGAGCGCCACTGTGATTCACCT
WI-7008	180 A	A G	:	AGATGGCAGGGCC I I US I COURS AND A COURS A
		CGAATTTGCTG	TCCCAAAAGTC TTAAGAAGAA	
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WI-7593	46 G A			TTTTTGTTTGCTCTGGACACCCACTGCTCCCAGGATGAAAGGAGAGGAJGAATGAGATCAGTTTTGGA CACTTCCTCTTGAAATATAAAGAATCAACAAGTTACAGTCATGTTGGGGGACTTCTTCTCTCTC
	:			AGTGCATOTTGGGGGAAAGGGCTCCAGTGTTATCTGGACCAGTTCCTTCATTTTCAGGTGGGACTCTT GATCCAGAGAAGGACAAAGCTCCTCAGTGAGCTGGTGTATAATCCAAGACAGAACCCAAGTCTCC TGACTCCTGGCCTTCTATGCCCTCTATCCTATC
WI-6962	78 A G	! :		CTATTCTCTGAAAATATTCCCTGAGAGAAACAGAGATTTAGATAAGA GCAGAGAAGAAGAACCATGCCAGGGGAGAAGGCACCCAGCCATC[C/G]TGACCCAGCGAGGAGGCAA
WI-7059	43	AAGCCACCCA (43 C G GCCATC	GCTCCTCGCTG GGTCA	CTATCCCAAATATACCTGGGTGAAATATACCAAATTCTGCATCTCCAGAGGAAAATAAGAAATAAA GATGAATTGTTGCAACTCTTAAAAAAA
WI-9063	53	CACTTCACTGA AAGACACCAT	CACTTCACTGA AAGACACCAT TCTACTTTCTG TT	
	!			AAGGGGCATTGAGACTATAAAGCAGTAGACAATCCCCACATACCATCTGTAGAGTTGGAACTGCATT CTTTTAAAGTTTTATATGCATATTTTAGGGCTGCTAGACTTACTT
WI-7079	293 T	 G	•	TTTACAGCTCTTGGCATTTCCTCGCCTAGGCCTGTGAGGTAACTGGGAA
WI-9074	38 4	GGTAAAAGTT CTTTTGCTCT 38 A G AAAAG	CAGATTITT	
				GGAGTTTGCCCCTTCCTAAGGGAAGGAGTCTTTATCTTTCTGGTTGGCTTGACCAGTCACGTTGGGA GAAGAGAGAGAGAGAGACCCTGAGGGCAGCCGGTTCCTACTTTGGACTGAGAGAAGGGAGCC CCAGGCTGGAGCAGCATGAGGCCCAGCAAGAAGGGCTTGGGTTCTGAGGAAGCAGATGTTTCATGCT
WI-7104b	249 CT		1	GTGAGGCCTTGCACCAGGTGGGGCCACAGCACCAGCAGCATCTTTGCTTT
				GGAGTTTGCCCCTTCCTAAGGGAAGGAGTCTTTATCTTTCTGGTTGGCTTGACCAGTCACGTTGGGA GAAGAGAGAGAGAGCCAGGAGACCCTGAGGGCAGCCGGTTCCTACTTTGGACTGAGAGAAGGGAGCC CCAGGCTGGAGCAGCATGAGGC(C/A)CAGAGAGAGGGCTTGGGTTCTGAGGAAGCAGATGTTTCAT
WI-7104	157	157 CA		GCTGTGAGGCCTTGCACCAGGTGGGGGCCACAGCAGCAGCAGCATCTTGCT
WI-8974	34	34 C T AAGAACTCA	TGTAGGGCTGA GCTGGC	CCTGAGCOCTC TGTAGGGCTGA CATACAATGAGAGCCCTGAGGAGCCTCAAGAACTCA[C/T]GCCAGCTCAGCCTACACCAGTTTACAAGAACTCATGCAAGGGCAAAAGGCAGTGCATGCA
		CCTAAGCATTG	GCTTACAGGAG CCTAAGCATTG AGACTAGACA	
WI-9161	61	CT CCTGGC	GGAA	CTGTCTAGTCTCCCTGTAAGCCAAAGAAATGAACATTCCA
WI-9014c		93 T C		OCCTGTTCCCATGCTGACCTGTGTTTCCTCCCCAGTCATCTTTCCTGTTCCAGAGAGGTGGGGCTGGATTGTCCTGTCCATCTTCTATTCTGTGCACTGAGCTGCACTTCT

				OCCTGTTCCCATGCTGACCTGTGTTCCTCCCCAGTCATCTTTCCAACTTCTCAACATCTCTCAACTTCAACT
WI-9014b	44 C	<u> </u>		CALCALO CONTROL CONTRO
			•	TCTGAGAGAAATGACTTGTGGGAGAGACACCTTGCAATCAAT
				CAGTGCCCTTTAAGTGCATCCCGCTGTGCTGACATTGCACACCTACTAGCTTCCCTTCCCATTCAACAC
				ICTITITIGGCCCCAGTATICA I GIGCAGGGIII GII I GIGAAAAAAAAAAAAA
WL-70236 206 CA	206 C		:	ACAIACACACATTCTTGCTCTACCCAAAGCTCTGGGCGGGGGGGG
				TCTGAGAGAAATGACTTGTGGGAGACACCCTGCAGATCCTCATGGGTTTGTGACAGAVCJCCCTGCAGATCATGAGGTTC
				GCTCAGTGCCCTTTAAGTGCATCCCGCTGTGCTGTGAGTGGGAICAACAICIGICGTACATCCATTCCAT
				COCTCITITITGCCCCCAGTATTCATGGCAGGGTTTGTTGGGACACCIACIAGCIICCCIICC
WI. 7023a	7. A		:	CACACACACACATTCTTGCTCTACCCAAAGCTCTGGCTGG
2070/-114	3			CTGAAATCCCCCTCTCTGCCCTGGCTGGATCCGGGGACCCCTTTGCCCTTCCCT[CT]GGCTCCAGCC
				CTACAGACTTGCTGTGTGACCTCAGGCCAGTGTGCCGACCTCTCTGGGCCTCTAGGTTTTCAGGTTTTCAGGCCAATT
				AAAACAGCTATCTCACAAAGTTGTGTGAAGCAGAAGAAAAGCTGGAGGAAGGA
WI.7093	54 C			GGGAGAGCTCTTGTTATTATATATTGTTGCCGCTG11G1G11G1
ī				ACATATCTGAAAATGTTGAAAGCCTAAGCCAGGAATAAAAGAAAAGTAGAAGAAAATGTTGAAGAAAAGTAAAAGTAAAAGTAAAAGTAAAAGTAAAAGTAAAAGTAAAAGTAAAAGTAAAAGTAAAAAGTAAAAAGTAAAAGTAAAAGTAAAAGTAAAAGTAAAAGTAAAAGTAAAAAGTAAAAGTAAAAGTAAAAAGTAAAAGTAAAAGTAAAAGTAAAAGTAAAAGTAAAAAGTAAAAAGTAAAAAGTAAAAAA
WI-9171	62 GA			TTCTTTACAACCGATGGTAATTAAGCTTGTATTCACAAGACIICAIGC
		CTAGGACCCC	TCTAGAGGGTA	A STATE OF STATE OF STATE AND STATE
		ATTCTCCTATT	TATAGGACAGG	GTGTGAGACCATCATGGTGCCAGTCTAGACCAATTGAGATTGAG
WI-9174	47 T	<u>⊢</u> O	ACTG	47 T C T ACTG CCCTCTAGAAACAGAAAGCAAIIIIIAGGCAAIIIIIAGGCAAIIAGAAAACAGAAAAAAAA
			CAGAGGTCTTG	AAGGCCAGATGCACATCCCTGGAAGGACATCCATGIICCGAGAAGAACAAATICCTCAGGCTA
		CCATGTTCCGA AAATACAGGG	AAATACAGGG	TCAAGACCTCTGTGCACTTATTTATGAACCTGCCCCTGCCACACACA
WI-7753	52 A	52 A G GAAGAACAGA A	A	AGCT GCCGG 11C11AAA1CCA1CC1CCCCCCCCCCCCCCCCC
		CCACTICICCC	AAAGGGAAAG TCTGACCTAGG	AAAGGGAAAG AAAGAACTACAGAGGACGATGTCCAAAACAAAA
WI-9186	76	76 G A CGCA	1	TCTCCCCGCA[G/A]ACCTAGGTCAGACT11CCC111CA1C11
		AGAATATTGT	GGTGTGTGTGG	AGAATATIGIT CIGCOTTAAAG GGIGIGIGIGG TIGGACAAACCTAGAATITICICCCITTATGIATCICIATICGATIGIGIAGCAATIGACAGAGAATAA CIGCOTTAAAG GGIGIGIGIGG
WI-9193	94(94 G A CA	TAGGGGG	CTCAGAATATTGTCTGCCTTAAAGCA(G/A)IACCCCCUIACCACACACACACACACACACACACACACAC
				TITGGATTGATATCGTGAAATCCTCAGCCGAGAAAIIGGGGCIGGAIIGGACIAAGAA
WI-9015	48 CT	<u></u>		CTTTCCCTAAAGAAGATAAACACAAAAIUCAIIUCAGAIAAAAAAAAAAAAAAAAAA
				GGAGCCAGGAGCAGCAGGGTCTGAGAGGAGCCACIA/GIGTUCUTAYTGACACCCAGGAGCCAGGAGCCAGGAGCAGCAGAGCAG
		GGTCTGAGAG	GGAGTGGGTG	GGAGTGGGTGT CTGAGGCTCGTGCCCTCAGACTGGGGAAGAGICCAAGGAAGGAAGGAAGGAAGGAAGGAAGG
WI-7254	371	37 A G AGGAGCCAC	CATTAGGGA	TCAATGGCTCCCCTGAAATCAAGACAGG

WI-9231	32 6	32 G C GATTGA ACTCAGAC	CACTTGCCCAC ACTCAGAC	CAGGTCCCCCA CACTTGCCCAC GTGACCCTGTGAGGTCAGGTC
		CAAATAAACA ATGCAACGTTC	GCICICAGAAC CAAGATTAGA	CAAATAAACA GCICICAGAAAC IIGIIIGGAAAAGTCATGGTGGTCTATAACTCCAAATAAACAATGCAACGTTCC[T/C]GATTTCTAAT ATGCAACGTTC CAAGATTAGA GAATGAAAATGTCATGGTGGTCTATAACTCCCAATAACAATGCCAGCT
WI-7836	120	120 T C CAGCTTCAGCT AAACAATCTA	AAACAATCTA	TCCATTCCTTTTGGCCCTGCAGCATGTCATGCTCCCAGAATTTCAGCTTCAGCTTAACTGACAGATTC
WI-7286	65	TAACTGACAG	ACCAGAAAGCT TTAA	TAACTGACAG ACCAGAAAGCT JGTTAAAAGCTTTCTGGTTAGATTGTTTTCACTTGGTGATCATGTTTTCACTTGGTAAAGTCA TTTCCATCATATCTCAAAGTAAAGT
		CTAAGCATGT	CCCAATTITTA	CTAAGCATGT CCCAATTITTA CAAATTCTTGGAAATATCTCAAATGTTAACAATATGAAATTTTTCTCATGCATACTATTACTACT
WI-7858	91	91 T G TAAAT	CATCTAT	AAGCATGTACGTGAATTTTAAAT[T/G]TATAGATGTAAACTTTTAATAAAAATTGGGG1G1GG
		₹		GAAGATTAAGGGGGGGTGTGCTCTGTGGTCTCCTCCCTGCCCTCTCCCCAQUA,UJI GGGGGGAAACAGACAGAGAGAGAGAGAGAGAGAGAGAGA
WI-7860	20	50 C G		ACCTAGGTGCTTCTCTAGGAGGAAACAGGGAGACCTGGGGTCCTGTGGAT
:		CGTACCTCCAA	GCTTGAGTGTA	CGTACCTCCAA ACATAATTGA GCTTGAGGTGTA CAAGGCGTACCTCCAAACATAATTGATTCIA/GJTATCTGCGAGACTTACACTCAAGCAATCCTGAGG
WI-9064	29	29 A G TTC	AGTCTCGCAGA	AGTOTOGOAGA AATACTGAAGGGAAGGGCOTOGOTOGOTOGOTOGOTOGOTOGOTOGOTOGOTOG
				CACACTTGTCTGTTCTTCAGTGCTGGAGGTCCTGGCAGGGTCAGGGTCGGGGGTCGCTCCCTCAGGGTJAACTTGGCCCAGGCAGCAGTCCCTCCAGGTJAACTTGGCCCCAGGAGAGCAGTCCCTCCAGGATAACTGGGAATTGTGACACCACCATCCTGAAGCCAGCTTGCACGTCCAGTTGCAGGTCCAGGAGAGGGGGAGAGTGCAGGAATGGGGAAATGTGACACCACCATCCTGAAGCCAGCTTGCAGCTTGCAGT
WI-7307	128 GT	GT	•••	TTGCACAGGGATTTGI CCI GGGGGGCI IGAGGGCCCI GI CCCCCCCCC
WI-9274	2	GAAATGTGAC TTCACTTTGGT 25 CT G	CAGGTAGAATT	GAGGAAATGTGACTTCACTTTGGTG[C/T]CAATGGACAGAAAATTCTACCTGTGCTACATAGGAGAAA GTTTGGAATGCACTTAATAGCTGGTTTTTACACCTTGATTTCGAGGTGGAAA
				AATTCCTTTCTGGTAATCAGGCACATGATGAACTTTGATTAGTAGGTCIGIGALIAAGTICLIAAATTCTTTATT TGTTTTGCAGTCTTTTATGTTTATTATCATAGGTATAGGTGGACCTAAAATTCCTTATCATATTATTATTATTATATCATATATCATATATCATATATCAT
WI-7313e	266 T	- - -		AAGGTGTAATATCGTTTTTGTTAAACTGAATAGAATTGTATAGCGATGA
				AATTCCTTTTCTGGTAATCAGGCACATGATGAACTTTGATTAGTAGGTCTGTGATTAAGTTAAGTTAATTTATTT
				AATTCAGCCAGTGTATCCACCAGTTTTTGTTTATGTTTTTAAGIAACCIAIIAICICIGGAIIICAIG
WI-7313c 256 CIT	2 256	3.CIT	:-	AAGGIGIAAIAICGIIIIIGGIGGIGGIGGIGGIGGIGGIGGIGGIGGIGG

WI.9281	88			ACTGGTGGGAGACTGTGAGGATCCCAGGATTCAGTATTCCTGGCCCAGAGGGCCTTGCTGGCTACTGG IG/AITGTTAGTTTGCAGTCCTGTGTCCCTCTCTTATGACTGTGTCCC
	5; 01	. •	GCTAACACTTT CATTTATTTG	TTCTGAAAATATAACCAGCCATTGAGCTATTTAAAACTTGTAATTTTTTAATTTACAAAAATATAA
		TTAAAACCGT	AAAGCTATTCA	TTAAAACCGT AAAGCTATTCA AATATGAAGACATAAACCCAGTTGCCATCTGCGTGACAATAAACATTAAAATGTGAAAACATTAAAATGTGAAAATGTTAAAATGTGAAAATGTTAAAATGTGAAAAATGAAAAATGAAAAATGAAAAATGAAAAATGAAAAATGAAAAATGAAAAATGAAAAATGAAAAAA
WI-7848	142 A G CTC		GACA	ACCGICICIA/G G G G G AAA AAA AAA G G G G
		TATTACA	CCCCACAGAAC	CCCCACAGAAC TATTGTAAAAC TCACGTTTGGTGCTTCTCAGATTTCTGAGGAAATTGCTTTGTATTGTATTACAATGATCACCGACT
WI-9304	70 G		AA	GA(GA)AATATTGTTTTACAATAGTTCTGTGGGGCTGTTTTTTGT
				TTACAGAAACTTGCCCTGTGCCCTGTGTCCCCCATGCTAGGGGGCGGAGGGGGTCTTTTCCTTCTTCTTCC
				TACCTACCCCTTTCTCTTGGCCAGGGCCTCGTATCCTACCTTTCCTGCCAATTAGCATTTAGTATTTGCACAA
WI-7933b	314 CA	A		AGTCTAAGGGACCATGGCTGCCTGGGGAGGAACCATAGCTCCCT
				TTACAGAAACTTGCCCTGTGCCCCCTGTGCCCCCATGCTAGGGGGGGG
				TACCTACCCCTTTTCTCTTGGCCAGGGGCJCCTCGTATCCTACCTTTCCTTGTCCCCTGGGCTGGG
				CACAGAGGATTGCCCCTTCTCTTTTCAGAGCTGGCCCTCGATGCCAAATAGCATTTAGAAGCTGCCTTGGAAGAAACATAGCT
WI-7933	9 9 9	:		CAMAGICIANGGACANICACIACONICACANICACIA
				CCCAGATGTGCCCATCACGTTTTTTCTGAGGCTTTTGTACTTTAGTAAATGCTTCCACTAAACTGAAA
				CCATGGTGAGAAAGTTGACTTGTAGCTGCTGTTGAAGAATATTGTTGTAGCAGAAACACAAGGCTT
WIL 7374	182 T	V	1	GAT
	2		0.00	
		-	ACGITITIGITG	GGTCTGCTCCTGCTTGACCCTTCCCTTTCCTCTCTCTCTC
WI-9343	78 C	78 CTCTCCCA	គ	CCTCTGCCA[C/T]ACACAAAACGTAAGTTTCATTTGGGCAAA
				CTATATGTGAGAGGCGTGATATCTGGATGGAGGTTGGGCTGGATGATCTCCAAAGTTCAACTCT
				TAAAGACATCTTAATCCTGAATGTAAACAATTGTTAJGTGTTTAGAATCAGAATTGTTTGTTAGAATCAGAATTGAATTCATCCTT
WI-/386D	40L	: 		AACAACCACCTCAGTTACGGGGTTTTTAAACCTTCATGAAAACCTGAAGAGTTCACTTTTGTTATAT
14/1.0357	75 4	;		GCTCTTAIA/GITGATTTACAGACTGATGCCAGACAAACCTTGGGAAGA
200): :	CTTTAGAAAA	CCTAGGGAACA	
		TCTGCTTTAAC	CAATTAGAGGA	TCTGCTTTAAC CAATTAGAGGA TGAAGGGGTGTGGCATCTGTGTTTCTGATGCTTACTACAATATGTGAACCACTACTTAGAAAATCTG
WI-9360	79 T	79 T C TTGG	4	CTTTAACTTGGITICJATTCCTCTAATTGTGTTCCCTAGGAAATGACTGTCCCAAG
				TGCTCCCTGTCCCATCTGCAGTGGACCCCAGGCACCCCTTTGAGGAGGTGGGGTGAACTGCTCCTT
		тестевестет	r GGTCCAGAAGA	TECTGGGCTGT GGTCCAGAAGA GGCAGGGATTTGTGACACTGCATTGCTGGGCTGTTCCTTCC
WI-7423	107 7	107 T C GTTCC	90000	GATACCAGGCCATGTGGTATTTGGGTCCTGGGAGGGTGGGT

	CAAGAG	CAAGAGAGA TGCAAAGAAA	CAAGAGAGA TGCAAAGAAA CCAGGAGCACTAGAGAGGGAAGGGGAAGAGAGAGAGAGAG
WI.7424	131 T A AAAA	(G	TYAJACAACTITCATTCTTTGCACGTTCATAAACATTCTACATA
17.1.11			TCCTGCAAGAAGTTCTCAAGCCTTTTTGATTTTTGTGCAATAAAGTACAGCTTTGCATAAGAGAAA
			TTGGGCTAGCTTAAATGGATCCATAAACTTTCTTCTAATTTTAAGTGAGA[A/CJTCTTTTAAACACCCT]
X86400	118 A C		TCCCTTTCCCATGAATATTCA
			GTGGCCACTACATGTTATAGAAACCATCATCTTGTCACACAGCACAGTCTATGAATAAAAGGCTGAG
			TTATCACTAAGCAGGAGAAAAAGCATTAAAAAGTGTCCCATTAAAAAGGGACTTTTAATCAACCTAA
			TAAACTCTAATTCTGCTGACTTTTTAAAGATCTAAGGTCATTTTAATACATGCTGAAAAGGGTCACA
WI-8053	242 T A	•••	ATTAATTCTTTGATCTTTTTTACTCACTGTTAACTTATAAGTAGTAAC
			TACACAATGAATTGCTTTTATTTCGGTATGCATCCACATTTCAGCATTTAGTGGTCCTGAACAGCAAG
			TGGAAAGACGCAGCAATTTGCCAGGAGGTCAAGCCCACCAATTTCGGGGATCTGCTGTGCACACGG
		,	GTTCCTTCTTAATCCCTGCTGAGGATCTTG[G/A]GAAGCAGCAGCAGCACCAAAACCAAGGCATGCA
WI-6190	165 G A		CCGGATTCAAGGTTCTTTTGTTCCAGTTGTCAGATTCCAAACTAGACCCCA
			AACAGTCACCACCACCACGACCACGCCAGGCCAAGGCCTTGCTTCCCTCCC
			ATGTGCCTAGTCAGCAAGGTCGGGGAGGCACCGATGTTAGCTTCGCCCAAAGGGAGTATTACAGAGA
			GAGGCTTGGGAAA(G/C)GGAAGGAAACCTGGACAGGCTTTTCAGCACTGAGAAATCACTTAAAACTG
WI-6275	148 G C	:	ATTTGCTTTCAGTAACTGGTATGTCTGAA
			ACCAAGAGATCAGCTGTCTAAACAGCAGCTTTTTTGATTGT[G/J]GGGCTTCCTGAAAGAAACCTTGC
			TGACAGCTTCTCACTGACCTGCAGGACGGAACCGTACCTGAGAGGGGGATGGGGGGTCTCTCACAAAA
			GAATATTTGGGGCAGAACCCTGGAACTGGCCACCAGGGACATCCCAAATATCCCCTCCTCCTCAGGG
WI-6421	41 GT	:	CTCACCCGACATCAGCCAAATGAAGGCTCTGAA
			GGGTGAGACGGGTTTATTGTGCACATTTACACAGCGTCACAGCGTCTGGGCTGGCAGCGGCCATGCTC
			CTGTGGTCGGGCTGCTCTACAAGGGCGTTCACTTTTCTTCACCACTATGTACAGTCAGT
			GGTGATGGGCTACAGTGCTGCATCAGTGAGTCTGTACACACATTTTTACATAAATTACACACGACIC
WI-6905	215 T A	•	ATACATGAAAAA(T/A)AGAGCCTAAGGGCCTGTATTTTAATGAGAAAAAAA
			AACTTGTTTACAAAATAGGCTTTGCAAACTTCATTACTGAATTGTAAAGTCAATGACTGTGTTGTTT
			TAAAATATGTACCAAGGAAATACAAATTGGATAATGATCATTTTTCATGCTCAGGAGAGAACAGCAC
			AGAAATAAAGGATACTGCACAAGGTGCAAGGAAACCGGAACCCATTGTGTACACTGTCTTCACACAG
WI-9420	202 G A		G/A GCATTCTTTCTCACCTTAACTGCAGCTGTGCAAGATGCCTCAGTGTG

				TGGGGCTGCTTTTAGACTTCATTTCTAGAGCAGAGCACCTAGTGAGAGGAATACCTGGGAGAGAGA
WI-9448	184 GA -			TITITAAGAAAAATGGGCTTGTGGTTCCAAGGCTGAGAGCTGGCACCAC[G/A]CACTGGTTTCTAAAAATGGCTTGGCTTGGCTGAGCGTGAGCGTGAGCGTGAGGTGAGGTGAGGTGAGGAGGAGGAGGAAAAAAAA
+-	i			ATGTCAGAAGAGACACAGACAAGGAGTTTTTCCCTTTTAAATGCTAAACAAGTGCCACTAATCCACA GATCTGAAAAAGTACAGCTCTCCAGGTTGATAAATCAGATTCCAGGCTTTTTCTTGTCAGTCCGCTTA
WI-9470	204 GA		:	TGAGATCACGAATATGATCTCCCTAAAGCCCCAGATTCCTACTAGAGCCGCTGGGGGACACTGATGAC AAIG/AJGCAATCAACTCATCTCCTCAAGCTCACCAGGGCTCACCTTCCCAAG
	1			GATGATITCTGAAGTCCTCAGCAGCCCTGATTCTAAGCCTCATAAGGAAGAGTAGGTGTTAATGGCA
WI.1945h	001 GT		•	TTATTAATTTCATTTATCATCTGGACAGCCCCTTCTTATAACGTACATCCTTGCCTCTTCTGAGGGGGG/G/
	5			GATGATTICTGAAGTCCTCAGCAGCCCTGATTCTAAGCCTCATAAGGAAGAGTAGGTTAATGGCA
				TCCTAGGGCAATGGTAGG[T/C]GCCTGATGCAGATCTGCTGTGAGCCATGTGCTGGCATCACAGGGG GGTTTATTAATTAATTCATTTATCATCTGGACAGCCCCTTCTTATAACGTACATCCTTGCTTG
WI-1245a	85 T C			GCTAAGATCCCCAAGGTGGCTCCTGTATCCAGAAA
				TTCAGTGATAAGGACAGGTCTAGAACAAGCGTTCCCAACCCTGGCACCAATGACAGTTTGGACCAAA
				TAACTOTTIGITTCAGGGGACTGTCCTACACTGTGGGAATGTTAGGAAATGTGTGTTTAGACATT CTAGATGCCAGCA[G/a]CACAACACCCCTCCCCAACAATGACAATGAAAATGTCTTTAGACATT
WI-1031	149 GA	:	i	GCCAAATATACCTTGTGGGACAAAATGGCCCCTGATTGAGAACCACTGGTT
İ				AATGAGTCATTGTGGAGTTAGAGGAGGTTACTGAAAATGGTGACTCCAATGGTGGGGATTTGAAGAGG
				GAAGTOTCGATAATTTTAACATATGGTTTTTAGAGATACTCAGTGACCCCATGGCTAGAGTTCCTGAC
WI-5385	110 GA	-	;	CCCTGCTACGGGAAACATTGAATGCA
ļ	1			ACCAAACOGTTGGCAAAGGCTCCCCAAGACTCACCACCCCAACTTTGGTGCTTACCCTATGCCGGGTG
				GGATTGAAGAAATAACCATAAATATAGTTACAATTTTTCCAGTAGTTACCAGGCACCAGCCTAT
WI-5403	199 T	•	ţ	IGGAAGAAA CALAAA GAACCC ACAA GAACCAGAAGAA GAACAAAAAAAAAA
 	1			TGGTATITITCCTTAAAATGTTATGATTAATTAGTGTCTTTGTAGAATTTGAAAAAATGTAAA
				TCAGAGAACAGAAAAAAAAAAAAGTATAGTTGAAACCTCTAACAATTTTAGATTTTTAAGGCCTAG
				GGAAAGAAAGAAGAGCCTGGGAA(G/A)AGGGAATGAGAAAAGCACAACCAGAAAAAAAAGTGTGT
WI-5801b	157 GA		***	GGCTTAAGGGAAGCCAAGGAAAGTTAAGT

	-	_	
			TGGTATTTTCCTTTTCCTAAAATGTTATGATTAATTAGTGTCTTTGT[A/G]GAATTTGAAAAAAAAAAAAAAATAAAGTATTGAAAACCTCTAACAATTTTAGATTTTTAAGGCC
			TAGGGAAAGAAAGAAGAGCCTGGGAAGAGGGAATGAAAAAAAGCACAACCAGAAAAAAAA
WI-5801a	48 A G	:	GGCTTAAGGGAAGCCAAGGAAAGTTAAG1
			TTCTATTTAAATCCTGTGCCCCATTGCAAGACTGCATTCAGTCTGCATGAGCTTAGTTTG[C/A]TAA
			TACAAACTGGGACCAAAGATGACTTTATAATAGTGGCAAGAGACAATCAGGCAGACTGGGAGGACC
9695-IW	61 C A	•	TTATAAATAGATTATAAGGCTGTGGTGAGTTTATITTAACTT
			TATTACTAGGTTCATAGAGCCCCGTTGTAATGATAAATAGCCAAATAGTTAAAAGAGGCTGCAGGCCC
			AATTCTAACGCTCCTCACTTCCCTTCGAACCCAGCCTCAGAGATGACACTTAGGCTGCACATTCCTG
			TGGGCAGGGACTGTGTTCCTGTTGGGTCCCCGGAACCCAGTGTGGTGCCTGGAACCCAGTGTGGTGCCTGGAACCCAGTGTGGTGCTGGAACAGAGAGTGGTGGTGGAACAGAGAGTGGAACAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAG
WI-7461	153 CT	:	GAGGCCCTGAGTAGCATGTGCTGCA
			AGAAGACAGGAGCACTGGGATCAAGGACTGATAAACTCTGAGGCTTTAATGGTCCCTTGTCTCTAAC
-			GCTTTTGGTATACTTTCTCTTTCTGAAGACCAACCCTTTCAAACTCTCAGAACACAGGCAAGATGCAT
			ATTCTGTAGTTTTCAGATGTGTACTTCCTACATTCTGGAAAACTAGATGAGTTAGGCTCTCTTCATCT
WI-9716	221 G A	•	CAATTGAAAATTCTAGAAJG/AJAAAACACCTAATTGGCTCATCTTGGATCA
		-	TTTTCGTTAAGTCTTGTGAAGCCACACAGAAGTGATCTACTCTCTTTAC(C/T)AAGTGTTACTTTGCA
			TATATTTTATGGGGATGATTCTATCCCTACTTAAGATTTTCTCTTCTCAGGTTAAATATTCCATTTCCT
			TTGTTCAGGAGTTTCTTATTTGGCCTTCTTTCTAAACCCTTAACCATTCTGCTTATTCTGCTTGTGTGACA
WI-9760	49 C T		CATGCTATTTAATCAAGGTGACATT
			GAAAACCTCGTTGGCTCAAAGGAAACTGTAG(A/C)AAATTCTTTTTTTTTTTTTTTTTTTAACTC
			AAAGAGTGGAGTTTGCATTGACCTTGTGATGGCACGCTGCTCTTTTGTTTTGGTGTAAATCCTCTAGT
			GGGCACTTTGCAAAAGCAATTTTAGAGCAAAAGGTGGTGGCATGGAGTTGTGTGAGGTTGCTGAAAAG
WI-9855	31 A C	•	TAGCAAATGGAAGAAAGGTTAATGGA
			AAGGCCCAGTGGGAAAAGCAGACAAAACACTCCAAGAATAC[A/G]AGATATAAAACATCATCATCA
			GTAGAGATGGGATGACCTAGGAGGTCATGCTGATGAGGGCATGTCAGACCAAAAGACATTTGGGTCT
			TGAGGGTTGAATAGGAGTTTGTCTGGTGAGTCTTGCCCAGTCCCATAGTAGGTGTTCCATAAATAA
WI-10312	41 A G	:	AGTGACTAAACTGAGGTAGAGTCACAGAAGAAAATTTCA
			GATTCTTTGCGACATGCAGAGCAGATACGGCAAGGCATCTTGGGCATTTGGAAGGAA
			ATTCATAGAAACAGACTCTACAAAGGACCAGTTAAAAGGTCTCGCACCAGGGGGACTGGGTGGCCAAAG
			TCAGTCAAGGCATAAAGGGGGACAAGTGGGACAAAAGGCTTGTCA[C/T]CTGTCAGAAACATTGAA
WI-11152 179 CT	179 C T	:	AACAGCCAGTACATGCCACTGATAGA

				TGGTGAGGAGCTGTAAGGCTGAAAGAATAGTCTCTGCTCTGGTCTTTCGTTGGAAATGGATGAGGTCCTT TTTACAAAATTTTCCTCTTGCCATGGGTGTTATGTTTAGAATCATGGAGTTGGAAGACTTAGATTCA
				ATTTGGGGCTGTACAGTTTACTGGAAGTTGT[A/GJTGAACTTGAGCAAGTGTCTCTTAATGTCTCTCA
WI-1968 1	167 A G			GCCTCAATGCCCTTCCCTGTAA
				GGGTTCATTTAACAGCCTTCCCACTGGGTCTCAGATTGCACGGAGATGTAAAAATAGGAAGAGATAGAAAAGAGATGAAAAAGAGATGTTAAAATTGACTTCCCCCACTTA
	(CCCGCCAAAGTCTACCTTTTGGTTCTTTTTTTTCTGCTAATGACCATACTATTTCCCAATTAGA(G/A)
WI-4701	198 GA		:	VITE ATTENDED TO A STATE OF A STA
				TTTATCTTTCCAAACCATGTGTTTTCTTCACATACTTTACGTAATTTAAATTCCCTAACAGGAAGCATAACTTACTT
				GATGTGCCATCTTTGTATTCCTAAAA(C/A)AAAGAAAAGTGCTTTTTGTGCATCTGCCCCTCTGT
WI-4823	164 CA	-	•	CTTCCTCTGTTTCACCTGTATTTCCCTATTCAGCATTCAATGATTA
				AAAAAACAACTTCATTTGACATTCTAAGAAGATAAAGAAAAACAACGATCCACTGTGTGTTTGCTT
				GATTT[A/G]GGAGATAAAACCTGATCTCTAAGAAAATTAAACCAAAGCAGTACACTAAAATAGCCT
				TTGTGTGTGTTTTCAGGAAAGAAAGCCAATCCAACTAAGTTGCTAAGAAAAAAATAATGTTTCATATCA
WI-4860	72 A G	:		CTCTAACTTCCACATAGGCATTAATATAGCA
				TGAAAGGACCAGTTCGAATGCCTACCAAGGTAAAGTAAA
				CCGGATGTTGCATAAATTCAGGTTCTTTAAGGAGTTCGGCTGCCCCAJAAAATTGTTAACACTGATGC
		· · · · · · · · · · · · · · · · · · ·		TGTCTACAAACGCACATAGAAATCGGTGGTAGATTGCGGTTCCTAGTAAGTA
WI-9705	111 CA	-	į	тваттвттвттвттвствтетствате
	;			CAAATAATCTCTGCTTAGAAGTTGCTCTAGGGCCATGGATTCATGTAAGGGTGGGGCAGGGTGGACTG
				AAGATCTGTTGGCAGGGCTCACAGAGACGGGGGTGAGGGGGAGAGATCGTGGGTTCATGAGATCCCAT
TIGR-				CTTGGGCAATACGGTTATCCCGTGGTCTTCATACGCCACAGA[A/G]TCCTCCAATTTCAGGGGCTCCC
A004Z48	177 AG	:		GTGGGATGGTGGAGCCAATGAAGACCAGGTAGATGATGCCCACCTAGAGATG
				GGGATTCAATGTGTCTGTCTCATCCAATAAGCAQT/GJCATGACCTCAGCCCCATACTCTTCTTCCC
				TATETTCCCAGAGACAGAATAGACCTGGCCCTTCCTTCTAGGGGATCACAATATTGGAAGGATGAG
		,		GACTOCAAACAGCCAGCTCCCATGCCAAATAGAACGATGAGTGCTGGGATCAATTTCTATGGGAGCC
017579	34 T G	;	•	TGGGGAGAGGGATCCTTTCTAGTTGA
				GTGAGAGCGAGGCTGAGGCTACAGATGAACTCTTTCTGGCCTGCTTTCGTTAACTGTGTATGTA
				TATATATTTTTTAATTTGAT[T/G]AAAGCTGATTACTGTCAATAAACAGCTTCATGCCTTTGTAAGTT
				ATTICTIGITIGITITGITITGGGTAICCTGCCCAGTGTTGTTGTAAATAAGAGATTTGGAGCACTCTGA
WI-7747b	88 T G	;	•••	GTTTACCATTIGTAATAAAGTATATATTITTTATGTTTGTTTCTGA

				GTGAGAGCGAGGCTGAGCCTACAGATGAACTCTTTCTGGCCTGC T/CJTTCGTTAACTGTGTAACTGTAACTGTAACTTGTAAGTT
				ATTICITIGITIGITIGITIGGGTATCCTGCCCAGTGTTGTTGTAAATAAGAGATTTGGAGCACTCTGA
WI-7747a	44 T			GTTTACCATTTGTAATAAAGTATATAAIIIIIIIAIGIIIIGIII
				TCCAGAATTTTCCTTCTTCAGCTCATTTTGTCTCTCACAATTAAGGGAGTAGGTTAAGTGAAAGGT CACATACCATTATTTCCCCTTCAAACAAATAATATTTTTACAGAAGCAGGAGCAAAATATGGCCTTT
				CTTCTAAGAGATATAATGTTCACTAAATGTGGTTATTTTTATATTAAGCCTACAACATTTTT[T/C]AG
WI-7189	197 T	1.	,	TTTGCAAATAGAACTAATACTGGTGAAAATTTACCTAAAACCTTGGTTATI
			A 100	AGCCCCAGCTGGACTCATGGATGTGCACCCTTTGCTCCCTGCTCTTTCTGCCTCTGG(G/A)CTCATGTA
				TCTGCGCAGCTCTGGTACCCTCTGTGGGTGCCATCTCTATACTCTGACACAAACTGCCTGACTTTTTTTT
WI-7850	57 G	A	:	ATTGGTGATGAATGGGAATGAAATCAGGGGGCTGTCTACTAGAGCC
				CTCTTCTCTTCATCCCATCACCCCTAAATAGGTCAGGTGAGGGAGG
				G[G/C]AGAAGTGAAGGAAGATAGGAAGGATATTACCTCTTCTGTTATTTTTAAGAAACATTGTTT
				GGTGGCAGCAATCTCCCTGTCCCTATCACTGTTAGAGGCCCTAATTTTATATCTATAAAATATATAAAAA
WI-7907	D 69	 O	:	AGCAAGTCAAACTTGGATGTATCAAGGTAAAATTATTGTCAAAGI11AAA1
				GAAGGCAGCTGGATCACTTCCCGCAGTCCTTGGGCAGCGCTTTGCTGTGGAACACGAGAGCTCCTCT
				CAGGGGCCTGGCACTCACTTCTGTATGATGTTTTGGTTAAACACTGTCAAATAATAGAGAI
				GTGCCAGATTTAGATTTTCTTACCCTAATCTGTTTAATATTGTAACTTTATTCCATTTGAAAGTGTCA
WI-7919	242 T		1	AGCCCATTCAGATAAGCTATAATCTGGTCTTTAAGGAA/I/CJACAACTT
				CTCCCTTCCTATGTCTCTCAGCAGCACGTTGGGGCACACTTGTTCATCTTCTGACCGTTTGCTGGGGCTA
				TTCCCCTGCAGTGCAGACATCGTCAAAATTCA[T/G]ACAAGAGGAAATTTTCATGCAGAAAGCTGTA
				TGCAGGATGCTCACTGATGTTTTGCACTTTAAAACTGAAATTCAACTCTTTATAGGATTTCTTTAAAACTGAAATTCAACTCTTTATAGGATTTTCAAAACTGAAATTCAACTCTTTATAGGATTTTCAAAACTGAAATTCAACTCTTTATAGGATTTTCAAAACTGAAATTCAACTCTTTATAGGATTTTTTTT
WI-7928	101 T	 D	•	CTATCTCCATCTCCTCATTAAAAATACGTACATTTCGAGGTAATGGTA
				TTTTGAGTCAAAGACTTAAAGGGCCCAATGAATTATTATATACATAC
				GGTAGCATTCTTTGGAGTTAAAATGCACATATAGACACATACACCCAAACACTTACACCCAAAC[1/A]
			_	ACTGAATGAAGAAGTATTTGGTAACCAGGCCATTTTTGGTGGGAATCCAAGATTGGTCTCCCAIAIG
WI-7936	131	T A	•	CAGAAATAGACAAAAGTATATAAACAAAGTTTCAGAGTATATTGTTGAA
				TACACGTTCCAGCCCGTTGCCCCACTCATCTGCGCGCTTTGCTTTTGGTTGG
				AATGCTTTCCATCTCCAGGAGACTTTCATG[T/C]AGCCCAAAGTACAGCCTGGACCACCCCTGGTGTG
				TGTAGCTAGTAAGATTACCCTGAGCTGCAGCTGAGCCTGAGCCAATGGGACAGTTACACTTGACAGA
WI-7944	99 T C	rlc	•	CAAAGATGGTGGAGATTGGCATTGAAACTAAGAGCTCTCAAGTCA

			TTTCTAGGCTGTACAGTCTGATGCATGATTTTTTTATAAATATTTCATACTCTTGTGAATTTGGATCTT TTTACTTTGAGCATATTTTAGAATATGTGT[A/G]TGTTAAAGGATCTCCACAATGTCTGCAGTGTG AAGGCAGGTTCATTGTGGAATAGTTTAACAGTCAGGAAGGCTAAACTGGTCAGTATTAATGTGTAGC
WI-7805	5		GGCCAGGAGATTAGCAACAAGGATTCATTCTGTTACTTGCCCCTTTTTATCTTTCCCTCTTGCCCCCCCC
WI-7416	137 GT		[G/T]CTACTCCTCAGGTGCAGCATACATAACCAGTAAGAGACTAAATCTGCAATATAAAAGAGCTC CTACAAATCAGTAACATGAAAAGAGCTCAAAAATTGGCAAATGTCATCAG
			ATTTGAAGATTTGGAGGGCTTTGCAGAGAAAAATAGATTTCAATTGGATCCCCAAACTATAATGACA AGTTTTTAATTAGGTGTGTGATCAAGGCTTCTAAAAGTGCAAATGCAAGTTGTTACCAGTAAAAGTTTATA
WI-140	252 C T		TCTTCCATTCAGCCCAGCTCATTTGCCAGAAATTCAGGIGAGIGGAIIGGALIGGCATTCAGACIAICIAGCAAAATGTGTCATTTGTCTGTATTGGCATTCCT[C/
			GAGGTCTTTCAGCAACATGGAAGCCCTACTGCTTCAACCCCGAGTTCCCCGGATCAAGTGCTGGCACCCATGATTTAAAAA
WI-198	218 C T	1	TTCTAAACAGCCTTTGATGGGACAATCTCTGCTAAAGACTAACCACTTCCTTATCTTGAGCTA CCTGCTTCCCTTTC[C/T]GTTTAACAAAGCATAGAATATTCTGAACAACT
	i		TTCATGGTCCCAAGACAGATTTTAAAGAAAGAAAATAAGCCTCATCTCCTAACTATGACTTTGGTCGG
2050	44 0	!	GCATGAGTTTG[T/C]CCAAAGGCTTGATGGGAAAATCTCAACATTTGTTACCTAAGAAAGA
			TTCATGGTCCCAAGACAGATTTTAAAGAAAGAAAATAAGCCTCATCTCCTAACTATGACTTGGTCGG
WI-205h	148		GCATGAGTTTG[T/C]CCAAAGGCTTGATGGGAAAATCTCAACATTTGTTACCTAAGAAAAGAGGATGT ATCTTACTTTGTTTAAAAAACTGCATATGCCTTTATTTTGTTTAGTTCCC
			GAAGACTGAGTTTCCAGGAGGTTGCAGCCGTTTCTCTCGGGCCATATGGCTAATAAGGAGCTTGAGCA GAGATTCAACCTGTTTGCAACCCAAGTNCTTTCCAAGAGGTCTCAGACTACCTCCTCCATCTCCCCT
WI-234	165 G C		CTCCCCCACAACACACAAATACAGAGATT[G/C]AATTCAGGAGCCAGTTTCTAGGTGGGCTTTGAGC AATCATACACAGTAATCTCTTGGTGCTTTAGTTTTCTCAAATGGGAAATGG
			AGCTTTTGAAATCCAAAAACCACATĮA/GJCTTGACTCTCTTATCCTCCTGTTGTTGTAACATCTATCC CTGAGGCAGAAAATACAGAACACCTGTGGCTGCCTGAACGGAGGAAGGA
W. 0764	(c)		CGGTCAATGTATCAAAGCATCTCTCTGCCTGAAAGACCTCTCCTGAAAGACATGAGCTATTAGGAGC
00/2-IAA	23 A G		

			AGCTTTTGAAATCCAAAAACCACAT[A/G]CTTGACTCTCTTATCCTCCTTGTTGTAACATCTATCC CTGAGGCAGAAAATACAGAAACACCTGTGGCTGCCTGAACGGAGGAAGGA
WI-276	25 A G	i	CGGTCAATGTATCAAAGCATCTCTCTGCCTGAAAGACCTCTCCTGAAAGACATGAGCTATTAGAAGGCTTTATCCTCTTATCCTTGATGACTGGGCAAA
			TTTCCCAATCCACAGGTAAAACTAATATAATGGATGTATAGAATTTAGAACTACTTCC[G/A]GTTT
WI-497	Q 50	!	TTTGTCATCAGAGAGAGAGAGCCTGACTCTGGCAGGATTAGCTACCACTAGCTGTGAGACTTTATGTAATAGAGGCCAGGGTCTTGCTCTGTCACCCAGCTTTCAGTGCAGT
	:		CTCTTCACTCCAACACTATATTGCTTACTTAATGGTTACAGATTAAGCCCAGAAAGGAAGCCTGTCTC
WI-562c	106 T C	:	AAAGNTATCTAAAGAGAAAACCATAATAATCTCTCAGGTAATTATGGCCACAGCCAAAACCAGTCT TTCTAAACCTAAAAGACCTATCACATAACTTCTCCACTTCC
			CTCTTCACTCCAACACTATATTGCTTACTTAATGGTTACAGATTAAGCCCAGAAAGGAAAGGCTGTCTCAATACACTAGATAATATATAT
4093 1141	() H		AAAGNTATCTAAAGAGAAAACCATAATAATCTCTCAGGTAATTATGGCCACAGCCAAAACCAGTCT
2020			CTCTTCACTCCAACACTATATTGCTTACTTAATGGTTACAGATTAAGCCCAGAAAGGAAGG
	1		AAAAGNTATCTAAAGAAAAACCATAATAATCTCTCAGGTAATTATGGCCACAGCCAAAACCAGTCT
WI-562	103 1 C	•	TICLEARCH CONTROL OF THE CONTROL OF
			ATGAGGAAGAGAGGGNGTAAGAAACAAAGATGTCTATGTTGAAGAAGTATCCTTAGGATATTCT
WI-597c	141 A G		GATACATG/AGJTAATGACCCTCCATGACTCTGGTACCTCATCATTACCAATGTGAGAATTAATT
		• • • • • • • • • • • • • • • • • • • •	GTGTAATTTGGTGGCTTTGCAACTTTTCCCACAGTAACCTTTAGAATNTNAAAGGTGGAAGGTAAGG
			ATGAGGAAGAAGAGGGNGTAAGAACAAAGATGTCTATGTTGAAGAAGTATCCTTAGGATATTCT GATACATGIA/GITAATGACCCTCCATGACTCTGGTACCTCATCATCATTACCAATGTGAGAATTATTAAC
WI-597b	141 A G	-	TTGATCTAATATTCTCACAACTAATATACCTGAGAGAAATAAGTCTATTTAAT
			GTGTAATTTGGTGGCTTTGCAACTTTTCCCACAGTAACCTTTAGAATNTNAAAGGTGGAAGGTAAGG
			ATGAGGAAGAAGAGGGNGTAAGAAACAAAAGATGTCTATGTTGAAGAAGTATCCTTAGGATATTCT
	• •• •		GAT[A/G]CATGATAATGACCCTCCATGACTCTGGTACCTCATTACCAATGTGAGAATTATAAC
WI-597	136 A G		TTGATCTAATATTCTTCACAACTAATATCCTGAGAGAAAIAAGICIAITTAAT

			TTCAAATTTAACACCATTGGGTATATTATAATTTTNGCTCTATCCATAGTTCTAACCTCTTCTGGA CJACAGTGAGACACCTGCCTTCTATTGTCCTTGACGTATTAACGTATTCGATCAGTCACCCATCTGGA
Wi-611			ACCAAGETTICATTICIECTEACCCCTCCTCACCCTACTTGGGCTCTGACTICCTTICCTGGGCTC GAACCTTCTCTGTGTGGCTGTCCTCCTCTCCT
			TGAAGCCCTCTCTCTATACCCAAGTGTCTTTATCTTAAAATGCTGTGGTGCAAGTATCTACCCCCTTA GGGATATTGTGAGAATTCAAAAGTTCATACAGGGGAAAGCACTTTGTNCCTGGTATGTATGTCATAAGTTCATACAGGGGAAGCACTTTGTNCCTGGTATGTATAAAGTTCATACAGGGGAAAGCACTTTGTNCCTGGTATGTATAAAGTTCATACAGGGGAAGCACTTTGTNCCTGGTATGTATAAAGTTCATACAGGGGAAAGCACTTTGTNCCTGGTATGTATAAAGTTCATACAGGGGAAAGCACTTTGTNCCTGGTATGTATAAAAAAAAAA
WI-681b	156 A G		TCCATAATTGTTATAGCTATT[A/G]TTATACTATGGCACCATTTGGGACACAGATTATATATGTCAGA
	4		TGAAGCCCTCTCTCTATACCCAAGTGTCTTATCTTAAAATGCTGTGGGAAGTATCTACCCCCTTA GGGATATTGTGAAATTCAAAGTTCATACAGGGGAAGCACTTTGTNCCTGGTATGTCATAAGCAA
WI-681	156 A G	;	TCCATAATTGTTATAGCTATT[A/G]TTATACTATGGCACCATTTGGGACACAGATTATATATGTCAGA CACCACGNATGTCTTTAAGATATGCAGCAAGCACAAATCTGTCATGGTTT
	:		AATCTTAACAGCCTTTTGATGCCAAAGCCACTTTCAGTCTTAATTCTTTTTGGAGCCTAAGATCAGTG CAACCCTCCAAGGCTCCCCAGTATCTGGCACATCTTTCCCTTTTCATCTCTG/G/AJTTTGTGTTTTGGC
WI-867b	119 GA	i	CAAATAATATCTCCCCCAGGGACGTCCTCTTCTAATCCCTGAAACCTGAGAAAATGTTATGTTATGC AGAGCATAAGAAACTTA
			AATCTTAACAGCCTTTTGATGCCAAAGCCACTTTCAGTCTTAATTCTTTTTGGAGCCTAAGATCAGTG CAACCCTCCAAGGCTCCCCAGTATCTGGCACATCTTTCCCTTTTC(A/G)TCTCCGTTTGTGTGTTTGGC
WI-867	113 A G		CAAATAATATCTCCCCCAGGGACGTCCTCTTCTAATCCCTGAAAACCTGAGAAAATGTTATGTTATGC AGTGCTATGGTTTGAAAGCTTAGAAACTTA
			AATCTTAACAGCCTTTTGATGCCAAAGCCACTTTCAGTCTTAATTCTTTTTGGAGCCTAAGATCAGTG CAACCCTCCAAGGCTCCCCAGTATCTGGCACATCTTTCCCTTTTCATCTCC[G/A]TTTGTGTGTTTGGC
WI-867	119 GA	1	CAAATATATCTCCCCCAGGGACGTCCTTTCTAATCCCTGAAACCTGAGAAATGTTATCTTATGC AGTGCTATGGTTTGAATGTGTCCCCCACAAAGCACACTTAGAAACTTA
			TCATCAGACCTGAGATTCAGCATGAAATCTACCAAAGGTACCACAAATGTAAACGAAATGAAAAAGAAGGAGCACCTACCT
	(GAGAGAAATAAATGAGACATTGTAAGTATGAATGTTGTATGTGTTATGGCCTGAATTGTGTACCC TAAAATTGATATCTTGAAGCCTTAACACCCAAATATGAACTGTTATTGTACATAA
01/0-100	50000		TCATCAGACCTGAGATTCAGCATGAAATCTACCAAAAGGTACCACAAATGTAACCTTGTCCAAAAAGGA
			ATCTCAGTITCTGCATATGTAAAATGGGAATGATAAGAGCACCCACCTACCT
			GAGAGAAATAAATGAGACATTGTAAGTTTGTAATGCACTGTTATGGCCTGAATTGTGTACCC
WI-871	123 C G	•••	TAAAATICATATGI IGAAGCCCTAACACCCAATATGINCI IGTACATAA

				AGGTTCTGGACTTGATGCTGGGAAACAATTGGGTNCTGGAGAATTCCTATTTTGAGTNTTTCACAGAT
WI-884	198 T C	<u>;</u>		ACTICCTCCTAATAGATCAGGAAAATCCACTCATTTAATCATGGACAACNNAAAAGGAATA[T/C]GATCCCCCATGCAACATTTATTCAGTGAAAACATGAAAATGAAAATGAACATAAT
				CACTTCCCAAGGGCTCTGGGGGANGAGCGGTGGGGACGCTGCCGGGAAGCAGTTCGACTGACTG
	(CAGTGATGCCTCTCACGCCTGGCCCCCCAAGAAAGTCTTNGCCAGGAAAAAGCACGATCCATCTAC TCTTCAAGAAAAATTTAATCAGGAAGAAGAATTCTTCCGAG
WI-921B	502 502		· !	CACTTCCCAAGGGCTCTGGGGGANGAGCGGTGGGGACGCTGCCGGGAAGCAGTTCGACACTGACTG
				TGCTTTGCTGCAGGGGCTCTGCTCTGAAGCCGGACACTGCCAGGTGCACACAGGGGACAGTTATACTGG
WI-921	205 GA	:	:	TCT[G/A]GGGAGAGATCTGACAATTTAATCAGGAGGAAGAAATTCTTCCGAG
				GGCTGGGATGAGAGGTCTACTTGTGGTACTGGAGGTTTCACTGGCTTGTGCTAGAACTAGNAAAGNA
				GAAAGAGACAGNGATTGGCTAACGCJCATGGCAGTAGTGGGCCCCAAGGCCTGAGTAATAAAAAAA
WEDARA	000	į		AAATCATTAGATAAATGTCTCATGACCAAAACAAAGI I CAAACANI AGG I GCAGCACANININGGG I TTCTCTGGTCATAGAATCTCTTAAAAGGGAATCATGACAGATTTTCTTGGCTTTA
201	3			GGCTGGGATGAGAGGTCTACTTGTGGTACTGGAGGTTTCACTGGCTTGTGCTAGAAACTAGNAAAGNA
			No.	GAAAGAGACAGNGATTGGCTAAC(G/C)CATGGCAGTAGTGGGCCCCAAGGCCTGAGTAATAAGAAA
				AAATCATTAGATAAATGTCTCATGACCAAAACAAAGTTCAAACANTAGGTGCAGCACANNNGGGTT
WI-945b	90 0 0	;		TTCTCTGGTCATAGAATCTCTTAAAAGGGAATCATGACAGATT11C11GGC111A
				TTGCTTCAAAGAAGTTCTTGCTCAGGAAGTTATTCATTCA
				ATCAAGCACAGGGTTCTGAGCAATGTCTTAGGAAGACCATAAAGGTGAATAAATGAGTGTTTCTACC
				CTGAGGAATTTATCAAAGATGTTAAGTTATCT[C/T]CTTAGAGGTATAAGTCATATAGGCATATICT
4096-IW	167 CT	:		ATGTATACTAAAGGTGGTATGGCATAAGAGTACATA
				TTGCTTCAAAGAAGTTCTTGCTCAGGAAGTTATTCATTCA
				ATCAAGCACAGGGTTCTGAGCAATGTCTTAGGAAGACCATAAAGGTGAATAAATGAGTGTTCTACC
				CTGAGGAATTTATCAAAGAT[G/A]TTAAGTTATCTCCTTAGAGGTATAAGTCATATAGGCATATICI
WI-960a	155 GA		:	ATGTATACTAAAGGTGGTATGGCATAAGAGTACATA
			_	TCCCACTGAGTATGGCTTTCAGTAGTTTTATTATGATGTGCCTAGGTACATTTGTTTTTATTTGTTCTG
				CGAATTGTTGTATTACTTTGGGAGAAATGCTCAACTATAAATATTGCTTCTGACCCTTTTCTGTGTTC
				CTTCTTAAAGATACAAAATAAATGTAACATTAGACCTCTCCACTA[T/C]GCTGTTTTTAAAGATACTCTCTCTG
WI-1121	181 TC		:	ATTITITICCATTATITITATIGCTCTGGCTICATITIGTAAAINIG

				TTTGCCATTATTTGAAGATAACCCACACCTTGGTGTCCAGGGTTTTCACAGGTATTAGTGGTCAGTCA
WI-1147b	204 GA	· · · · ·	·	CTGAGCCAAAACAGGCATTTACCATAAATCACTTTGTTAGGATGAACTTATCTGGCCAAACTGATA CIGAIGAIGCATGACCACACAGAGCATTAAAAACACTCTCATCAGGCAGA
·				GCATTCAGAGGGTTCGTTTAATGACATTCACTGAGGCCCTGTCTATGTCAGGCCCTTGGTGTTGAAGA CGCAATCATGAACAAAAATGAAAATACAATGTGATGGTCTCTGAGTGTGTGAATGCGCGAGGTGGC CGCAATCATGAACAAAAATGAAAATACAATGTGGTCAAAATGTGGTTTGCTATGC
WI-1158b	147 CT			AAG GC GGGGGGC CAGGC GCC GCGC CGC
				GCATTCAGAGGGTTCGTTTAATGACATTCACTGAGGCCCTGTCTATGTCAGGCCCTTGGTGTTGAAGA CGCAATCATGAACAAAAATGAAAATACAATGTGATGGTCTCCTGAGTGTCTGAATGCGGGT CGCAATCATGAACAAAATGAAAATACAATGTGATCATAAAAAAAA
WI-1158a	124 C G			GGCI AAGI GCI GGGGGCI CI GGGGG I CAGGGCI GGCI
				AAGTTTACAGAAAAAAATACCAGAAAAGTGACTTCAAGANTCAGCTGAGATAGAAACATATGCCCA TCATCTTCAANGTNCCCACAGACACTTATCCCCTAGACAGCCATTTCTTTTTGAATGNIT/CJGNCANT
WI-1304	124 T C		;	AAAAATGATTTGAAATTGGGAATAAAGCCCTCCCTCTAATGATTTGACAGTGTTAGAACUTTGACAGTGTTGACAGTGTTTGAAAATGAATTGAAAAAGCCCTCCCT
	!			TTCTCAATTCCAATCTGTGTGTTACTTTTATTTCTTTCCATTCTATGTTGGTAAATATAAAGGTG
				ATTGTGCAAAAGTATTTAAATATCGTCTGATTATACCATTTTINCAGAAGATAAGGTTTTAANTGNNATATGC
Wi-1305d	202 CT		i	TAGGGCGANGTAATANGTATACAGNGANTCATAACAGCCCTGCCTACCA
				TTCTCAATTCCAATCTGTGTTACTTTTATTTCTTTCCATT[C/I]TATGTTGGTAAATATAAAG
				ATGATTGTGCAAAAGTATTTAAATATCGTCTGATTATACCATTTTNCAGAAAGATAAGGTTTTOOLO
WI-1305c	46 CT		:	TGCAGGGCGANGTAATANGTATACAGNGANTCATAACAGCCCTGCCTACCA
				TTCTCAATTCCAATCTGTGTGTTACTTTTATTTCTTTCCATTCTATGTTGGTAAATATAAAGATG
				ATTGTGCAAAAGTATTTAAATATCGTCTGATTATACCATTTTNCAGAAAGATAAGGTTTTCCTCACA
				TCCACTGCTTTCANTAA(T/C)TNACTCCACTNATGTC1NACAAAA1NACACTGTTTCANTGNNATAACAAAAAAAAAAAAAAAAAA
WI-1305b	153 T C			I GCAGGGGGAMG I AATAWGTATAAAWGAATICATAACAGGGGGGGGGGGGGGGGGGGGGGGGGGGG
				TICTCAATTCCAATCTGTGTTACTTTTATTTCTTTCCATTCTATGTTGGTAAATATAAAGATGT
				ATTGLGCAAAAGIAIIIAAAIAICGLCGAIIIAIACCAIIIIINCAGAAAAAAIAAIAACTATTTAANTGNNATATGC
4004	1			ICCACTGCTTTCANTAATANGTATACAGNGANTCATAACAGCCCTGCCTACCA
COC 1-144				

			TTTCTGCATTGGAATAGTTGACTTCTATGAGNNNGCAATAATAAATGGACAATCTTGTNGNNNNNNG GGCTGGGGTGACTGTGCCTGGGTCATTAGAAGCCATAGAGATGAAAGTGGAAGCCTGCAATAAAAAGAGGA
WI-1306b 248 A G-	;	:	AAGTGAAGCTAATCTGAAGCTGTGACCTAAGGGNGAGAAGTGGCCCTNNTTTCTGATGGCTTTTCAGT
			TTTCTGCATTGGAATAGTTGACTTCTATGAGNNNGCAATAATAAATGGACAATCTTGTNGNNNTNG GGCTGGGTGACTGTGCCTGGGTCATTTAGAAGCCATAGAGATGAAAAGTAGCCTGCAATAAAAGAGAA
WI-1306 240 A G-	i	:	AAGTGAAGCTAATCTGAAGCTGTGACCTAAGGGNGAGAAGTGGCCCTNNTTTCTGATGGCTTTTCAGT
			GACAAGGCTGGTACTAGTTTCCAATTCCAAATCTATGTACACTTTCCTCTCACTTTCTCAAGTGGACA GATTTTCTGCATTATACTGCTTGGGGGTTGGGGGAGCAGTGGTGTGAGGCAATVCJGTGAGATTGTCTTT
WI-1307b 118 T C		.	TCTTTTGGTGTTGTTGTTGCTGTTGTTTTCTCCTGTAAAGNTGTTT
			GACAAGGCTGGTACTAGTTTCCAATTCCAAATCTATGTACACTTTCCTCTCACTTTCTCAAGTGGACACAGAAGAAGAGGGAAGAAGAAGAAGAAGAAGAAGA
WI-1307 118 T C			CCTACCCTCTTAAATGTATCTTTNCTAATTATNATGCTAAAACCGGGTACTGTGATCTATCACTGGTT TCTTTTTGGAGNTGTTT
			GAGAGATGGCCAAGACAAAGCAGAGGGAGAGAAGAGCAACCNICTGTGGTTTTATCGCAGCAAGCN ATGTCTGTCTGTCTCATAGATCAGATGAGCATGTGCTCTCTTTTTGTATAGATCAGATGAGAGAGA
WI-1325b 169 T C	-	•	ATTATGATTCCCACTTTACATCAGTGGGAATTTGGACTTGGTGAAGTTAGGTT
			GAGAGATGGCCAAGACAAAGCAGAGGGAGAAGAAGAACAACCNTCTGTGGTTTTATCGCAGCAAGCN ATGTCTGTCTCTCTCTATGTATAGATCAGATGAGAAGCATGTGCTCTCTCT
WI-1325 165 CT	•		ATTATGATTCCCACTTTACATCAGTGGGAATTTGGACTTGGTGAAGTTAGGTT
			CTACGATAATTAGGTTTGGCAGTGAGGGTATTAAGCTGTGTAGTGCAAGAGGTCCTGTTATTTGTAAA ACACCAAGTGCGGTTTAATGGAATGCGTATGTGTGAGTNCATATTCAGGCTGGGGANGACTC
WI-1327b 162 T C	:		CAGCGACACTATGGAGCTGAGAGTCTG[T/C]GAAGTTGGGTAGCTACCAGGCCTCCCCAAATGTAGT TCTTGNGCTGAAGTCTCTTACTGAAGAGGCAATGGTTCCATCTCTAAG
			CTACGATAATTAGGTTTGGCAGTGAGGGTATTAAGCTGTGTAGTGCAAGAAGTCCTGTTATTTGTAAA
			ACACCAAGTGCGGTTTAATGGAATGCGTATGTGTGAGTNCATATTCAGGACAGGCTGGGGANGACTC CAGCGACACTATGGAGGTGAGAGTTGGGTAGCGGTAGTACAGGCCTCCCCAAATGTAGT
WI-1327 175 CG			TCTTGNGCTGAAGTCTCTCCTTACTGAAGAGGCAATGGTTCCATCTCTAAG

			TATCAGCATGATTGTGGCTGTTGGACACAAAGTCAATTTGTACTTTTGTTTTGTTTTATACCAAGC
			[G/A]GGATTGTGATGGATCTGTTTATTTTCCTGTGTCTTGGAACAGCAGAGTCGTCTCTGNGAGTNTG
WI-1341b	136 GA		A CHANGE A CHOCK A CHANGE A CH
			CTGACAAATGTCATATCTCACTCCTAAAACCCACAGGTCATAGAATCAGIIAGCIACCIAACUAATUCA GCAACCCCAGCTTTGAAATGGATGCAGGGCAGGTGGTAGGTGTGGCTGTCTGGCTGTCAGTTTGATATATAT
			GCAGGTGCTCAACAAATGTAGATTCAGTGAAGGATAGTGCTGAATTTCCATCTCTGA[G/C]ITCAAA
WI-1349e	192 G C	1	ATAATTTGAGAAAATATGATAGAAATTGTGAAGTACTAGATTTCAGAAAATA
			CTGACAAATGTCATATCTCACTCCTAAAACCCACAGGTCATAGAATCAGTTAGCTACCTAC
			GCAACCCCAGCTTTGAAATGGATGCAGGGCAGGTGGTAGTGTCTGGCCTTGAGTTCAAAATA
			GCAGGTGCTCAACAAATGTAGAATTTCAGTGAAGGATACAAGATTTCAGAAAATATTGAT
WI-1349d 2	264 C A	•••	ATTIGAGAAAAIAIGAIAGAAAIIGIGAAGIACIAGAIIICAAAAAAIAIGA
		5	CTGACAAATGTCATATCTCACTCCTAAAACCCACAGGTCATAGAATCAGTTAGCTACCCTCAATCCA
			GCAACCCCAGCTTTGAAATGGATGCAGGGCAGGTGGTAGGTGTCTGGCCTGTCAGTTTGATATATG
			GCAGGTGCTCAACAAATGTAGATTCAGTGAAGGATAGTGCTGAATTTCCATCTCTGA(G/CJTTCAAA
WI-1349c	192 GC	- 1	ATAATTTGAGAAAATATGAAAATTGTGAAGTACTAGATTTCAGAAAATA
-i			CTGACAAATGTCATATCTCACTCCTAAAACCCACAGGTCATAGAATCAGTTAGCTACCCTCAATCCA
			GCAACCCCAGCTTTGAAATGGATGCAGGGCAGGTGGTAGGTGTCTGGCCTGTCAGTTTGATATATG
			GCAGGTGCTCAACAAATGTAGATTCAGTGAAGGATAGTGCTGAATTTCCATCTCTGAGTTCAAAATA
WI-1349b	264 C A	1	ATTTGAGAAAATAGAAAATTGTGAAGTACTAGATTTCAGAAAATATGAT
_	1		CTGACAAATGTCATATCTCACTCCTAAAACCCACAGGTCATAGAATCAGTTAGCTACCCTCAATCCA
			GCAACCCCAGCTTTGAAATGGATGCAGGGCAGGTGGTAGGTGTCTGGCCTGTCAGTTTGATATATG
			GCAGGTGCTCAACAAATGTAGATTCAGTGAAGGATAGTGCTGAATTTCCATCTCTGAGTTCAAAATA
WI-1349	264 C A	1	ATTTGAGAAAATATGAAAATTGTGAAGTACTAGATTTCAGAAAATATGAT
 -	!		TGGTATTTGGAATGGGGTTCAGACTCCGGGTTCTGGCTTCTGACCTTTGGTAAGTTG[C/TJTTCCGAATT
			GCCACTITATAAAGTTAGAGGTATTACCTTGGAGGGGGGGGGG
			AAAGTTTACATCAACATAATTCTTGCCCTGCATCATGCATTTGGCAATATGTCACATAGCTGTCCICA
WI-1403b	57 CT		TAATCCCCAAAAGGGTTGTATCTGATTTGT
			TGGTATTTGGAATGGGGTTCAGACTCCGGGTTCTGGCTTCTGACCTTTGGTAAGTTGC[T/C]TCCGAA
			TGCCACTITATAAAGTTAGAGGTATTACCTTGGAGGGGGGGGGG
		-	TAAAGTTTACATCAACATAATTCTTGCCCTGCATCATGCATTTGGCAATATGTCACATAGCTGTCTCTC
WI-1403	58 T C	•	ATAATCCCCAAAAGGCAAAAAGGGTTGTATCTGATTTGT

			CAGGCCGGAAGAGATTCACGTGGAGAGATGTJC/TJTTGGCCAGGGGCGGGCAGATGTGAGCCCACGGG GGTGACAGCATGCCTGCTGGCATTTGGAGGGCCCCAGAAGGAATCCCAGTGGCCCTCTCAATGACTTG
WI-1417c	31 CT		GGGTCCTCGACTTCGGAAGTTTAAGGGGCTCGGCTTCAAAAAGCTGGGTCCGGTTTTGAGGGCGGTTGC AGGCGAGGCCCTTAGGTCCGTATTTAATGTTTGCTTTGTAGAAAAAGTCGC
			CAGGCCGGAAGAGATTCACGTGGAGAGATGT[C/TJTTGGCCCAGGGCGGGCAGATGTGAGCCCACGGG
			GGGTCCTCGAAGTTTAAAGGGGCTCGGCTTCAAAAAGCTGGGGTCCGGTTTTGAGGCGGTTGC
WI-1417b	31 CT	:	AGGCGAGGCCC11AGG1CCG1A111AA1G111G1AGAAAAAG1CGC
			CCATGAGCAAACAGCATGTTTCTACTCTGTGATGTGTTATGAGGGGGCATGTATATCTGTATATATGAGGGGCAAATGAATAAAAAAAA
			TETTGGAGAACTGAAAAAGAGCTTACATGCACCCCAATAGCAAAACACTCCCACACTTCCAGCA
WI-1729 1	172 A	4 +	GATGTATGTGTCCTTCCGTGGTNACCTTCTCCCCACCATCACCTGTGTTTTT
			TGCCTTACTTCTTTGTTCATTCCCACCATTACATTTTGTAAATTGGAACTTCTAGGAGGTTAGAAGGA
			TATGCTGATCAAAAAAAGGGGACATATTCAAGGAGTNTCCCTGGGTCAACCCTTTT/CJATTCAGTCT
WI-1732b 1	122 T C		CTGCCACATGTCTAGTAACTGTGAGTGATGGGTGCATCAGTATAATCCTGAGCCTCCCAAGGTACAGC
			TGCCTTACTTCTTTGTTCATTCCCACCATTACATTTTGTAAATTGGAACTTCTAGGAGGTTAGAAGGA
			TATGCTGATCAAAAAAAGGGGACATATTCAAGGAGTNTCCCTGGGT[C/T]AACCCTTTATTCAGTCT
	(CTGCCACATGTCTAGTAACTGTGAGTGATGGGTGCATCAGTATAATCCTGAGCCTCCCAAGGTACAGC
WI-1732 1	114 CT	:	CTITCACIACIALICALCAIGECTAAGGIATICATCATATIGECTAAG
			GCGAATITAATGACTCCAAAGGTAGTAATTCCTTTCCCCCAAAAAGGTTTTAAAATCTGTGTGTG
			CATAATGT11GAAT11GCAG11CACC11GG[A/G] 11AAGG1G1GT1GT1111C1GGCAAAGGGGTTGCAGTCGTGAGTGAGAGGGGTTGCAGTCCTGAGTGAG
WI-1750	97 A G	1	CTACATTCACTTTATGATCTCCAGCAGGTTCTTCCA
			GGTACACAAAAAAATGCTTCTGGAAATCTACĮA/GJTAGCGCCTTAACATTTTGGCTGAGTATTAATC
			TGTACATGTGTAATGTGAACCACCATGAAGCTGGGCAAAGAACAATTCCTAGGAAAAGTACAATTAC
			TGGGAAACTGTAGAACAAATAATTCTCATAGTTTACACATAGCTGGGAATCACTCATGTTCCCATCA
WI-1780	31 A G		ACTGGAGAGCCTTGTTGAGTACAGAGGACATTCAAGAATAATCATAAAAAAT
			CCACTCAGTAATAATAGTGTTGGAGATAAGTATATGGTAGGCACATAATAATTATTTCAGGCAGAA
			CCATTATGAT[A/G]AGTAGGGTAGAGCATCACACTTGGGAGGACATATTCTGGAGTNAGATATCCTG
			GGTGCTAATTTCAAATATATCTACTAAAGCATGACTTCTAGAAAATTACTTATTACTCTTGTCCTCAA
WI-1803c	77 A G		GGAAATGGGAATACCTATAATACAGTCTTATTGAGGAAAATAACTGGAATCA

			CCACTCAGTAATAATAGTGTTGGAGATAAGTATATGGTAGGCACATAATAATTATTTTTGGGAGACATATTCTGGAGTNAGATATCTGGCATATTCTGGAGTNAGATATCTGGAGTNAGATATCTGGAGTNAGATATCTGGAGTNAGATATCTGTG
			GGTGCTAATTTCAAATATTCTACTAAAGCATGACTTCTAGAAAATTACTTATTACTTGTCCTCAA
WI-1803b	77 A G		GGAAATGGGAATACCTATAATACAGTCTTATTGAGGAAAAIAACIGGAAICA
			TITACTIGGGATITITCATAGCTGATCATAATTTACCATTTGATAATTCACTTCTTTTCCCAGGCTCA
			AGGCTGATAAGCAGTTATCCAGATAGAATAGACCCGTTTATAC[C/T]TCTGTCCCCAGTTTGAGTTTTGAGTGAATTTTGAGTCTTTGAGTGAATTTTGAGTCTTTGAGTGAATTTTGAGTCTTTGAGTGAATTTTTGAGTCTTTGAGTGAATTTTTGAGTCTTTTTTTT
WI-1837b	112 CT	i	CGTGTAACAACTGGGAAGTCTGGGGAACGTTTTAGCTTTCTGCTGTGGCT
			TTTACTTGGGATTTTTCATAGCTGATCATAATTTACCATTTGATAATTCACTTCTTTTTCCCAGGCTCA
			AGGCTGATAAGCAGTTATCCAGATAGAATAGACCCGTTTATAC(C/IJICTGTCCCCAGTTTATTTTT
			AAGGTTTTTTTCATTGCACCTGATGCCAAAACAAAACTCAAAAGACCTTGAGTGAATTTTGAGCT
WI-1837	112 CT		CGTGTAACAACTGGGAAGTCTGGGGAACGTTTTAGCTTTCTGCTGTGGCT
			TCACCTAGGGAGGTCGCTAAAAATGTAGCTTCATTAAGACACCTCAGACCTATTGGATCAGGATCTT
			TCAGGTAGCACT[G/J]GAGAATCTGAATATTCAGCACATACAAGTGTGACAACCACTTGTTTAGTAT
		-	ATTITIATCTCCAGAGTGTTTTGAATTTACTAAAAGTTCCTAAAGAGCCATGAAGAATTATAAGACT
WI-1840b	79 GT	•	ATCGCA
			TCACCTAGGGAGGTCGCTAAAAATGTAGCTTCATTAAGACACCTCAGACCTATTGGATCAGGATCTT
			TCAGGTAGCACT[G/T]GAGAATCTGAATATTCAGCACATACAAGTGTGACAACCACTTGTTTAGTAT
			ATTTTATCTCCAGAGTGTTTTGAATTTACTAAAAAGTTCCTAAAGAGCCATGAAGAATTATAAGACT
WI-1840	79 GT		ATCGCA
			GGGCTCACTTTCATCAGAGCACATATCACGTGATAGTCTGTTTCCTTTTTCATAACTTACTCCCCCG
			CACTGTAGGNTTTCTTTTGAGGTNAAGGACCTGCCNTTTTA[C/T]GTCTGCNAAATAAACTCCCAAAA
			AAGTGGTTAGTCCACAGGGTTTTAATAGTTCTTGTTGAATGAA
WI-1879b	110 CT	***	CAAGAAAAAAAACATTGAAAAATCTCCACAGAGCCCTTTACCCACT
			GGGCTCACTITICATCAGAGCACATATCACGTGATAGTCTGTTTCCTTTTTCATAACTTACTCCCCCG
			CACTGTAGGNTTTCTTTTGAGGTNAAGGACCTGCCNTTTTA[C/T]GTCTGCNAAATAAACTCCCAAAA
			AAGTGGTTAGTCCACAGGGTTTTAATAGTTCTTGTTGAATGAA
WI-1879	110 CT		CAAGAAAAAAAACATTGAAAAATCTCCACAGAGCCCTTTACCCACT
			TGTTCTCTGGTCCAGGCACCGGGCTAAGTCTTGTCTGCATAATGGAATAATCAACTGGACAACCCCNG
		-	CTNAGGTAGGNTACCTNGGCAATTAGCCCCATCTTACAGCTGCAAAAGAGG[C/T]GCTCTGAGAGGT
			AAAGTGCCCTGCCCCAACGCGCACAACTAGAGAGCAGCCAAACAGGTGTTTGAACCCAGCTCTGCCT
WI-1900b	119 C T	•	GACTTCAGATCTGTGTGCTTAACTGCCATGAGAAACCACTTTTCTTTGCTCC

				TGTTCTCTGGTCCAGGCACCGGGCTAAGTCTTGTCTGCATAATGGAATAATCAACTGAACTGAACAACTGAAGAGGTCTTGAGAGGGTTACAACTGCAAAAAAAA
WI-1900		; -		AAAGTGCCCTGCCCCAACGCGCACAACTAGAGAGCAGCCAAACAGGTGTTTGAACCCAGGTCTGCCT
:	-			ATTCCAGTTTCACAGTGGGCACAGGAGTCAGATTAGGGCTAAGTTGGGGGGACAGGATGCACAGCGT
				GI IGGCI CAGGATO I GGGAAAGACCAGCOC/TCTGAAANCTGGGTCCCACGTGGAGATAGTGAA
WI-1943c	165 CT	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TACAGGGCACCGNTGAGCATTCCAGATGACTCCAAAGCCCCGGCTGGAGTAT
				ATTCCAGTTTCACAGTGGGCACAGGAGTCAGATTAGGGCTAAGTTGGGGGGGACAGGATGCACAGCGT
				GTTGGCTCAGGATCTCTGGGAGGTGGCACCTGTGACCTGGGCTAANCATGCTACTTTCAGAGTCAAGC
				AGCAAGCCAATGGGTAGGGAAAGACCAGCCIC/TJCTCTGAANCTGGGTCCCACGTGGAGATAGTGAA
WI-1943b	165 C	<u></u>		TACAGGGCACCGNTGAGCATTCCAGATGACTCCAAAGCCCCGGCTGGAGTAT
				ATTCCAGTTTCACAGTGGGCACAGGAGTCAGATTAGGGCTAAGTTGGGGGGGACAGGATGCACAGGT
-				GTTGGCTCAGGATCTCTGGGAGGTGGCACCTGTGACCTGGGCTAANCATGCTACTTTCAGAGTCAAGC
		-		AGCAAGCCAATGGGTAGGGAAAGACCAGCIC/TJCCTCTGAANCTGGGTCCCACGTGGAGATAGTGAA
WI-1943	164 C	- 	,1	TACAGGGCACCGNTGAGCATTCCAGATGACTCCAAAGCCCCGGCTGGAGTAT
				CCAGGTGAGGCTGAAAGAAGGAAGGAGGCAATTGCTGTTGGAGTGAGGGATTCTGGAGAAGCACCT
				GCAGAGCTTCATTCTGTTTTCAAAAGTGTGCCATGCANGGTCNTCTGGGTTGTGAGCTCATNGCTGAG
				TTATCACAGCTCCTGATGACAGATCATGAAAAATAGGTACTTCCCAAGCTCTGACTAGACCTTGGCA
WI-1960c	270 A			GTTGCAATTAAATCCGTGGTGTCTGAAAACTTAAAAATGCACCTCCCAACTTT
				CCAGGTGAGGCTGAAAGAAGGAAGGAGGCAATTGCTGTTGGAGTGAGGGATTCTGGAGAAGCACCCT
		***		GCAGAGCTTCATTCTGTTTTCAAAAGTGTGCCATGCANGGTCNTCTGGGTTGTGAGCTCATNGCTGAG
				TTATCACAGCTCCTGATGACAGATCATGAAAAATAGGTACTTCCCAAGCTCTGACTAGACCTTGGCA
WI-1960b	270 A	- -	:	GTTGCAATTAAATCCGTGGTGTCTGAAAACTTAAAAATGCACCTCCCCAACTTT
				CTGATGCCAAGTGCAGCTTAGAGTNAGGAATCCAGAGAAAGTNTTTGGATCTGGTAAGTAGGAGTCA
				TTCTGGGCATTTCTTCATAGAGINITGTTTTAGTCTCGTAATAATACTGTTGCCCTAGGAAGGTTGTT
		···-		TTTCCTACTGCGTCTGTGAAAGCCTTTCCCCATCGAGTGATACAGTACTTTCCAGTTATGGAGATTT[T
WI-1977	203 T	···		/CJTAACAATCAAACACTGGCTGAGGCTGTTGG
				AAATTCTAGAAGCCAGAAGTCAGCTCACGATTTATAAAGTTGAAGTAAATGCATTGTAGTTTCATGT
				TTTCTCTTAATTCTGCACAAAACTAGCTAAAAATC T/CJTTTAAATCAGTTACCAGAGGCAATACCT
	_			GGGTTAATGTAAGCACTCAAAAGTTATGTAGAGTAGCTGTCTCTGAGTCACTTTTTTCTACTCTCATT
WI-2012	102 T C	<u> </u>		GGCTTCACCAATGCTTCCACTGGATC

				CTITIAAAAGETAAATTAAAAAAAAAAAAAAAAAAAAAAAA
				TTGCTAAGTACACCTAACATTTAAACAGTCTCCAGCAGATAAATGCTGATACTGACACT[C/T]CTCA
WI-2013	127 C	-		CCAGAAAAAGAGAAATACCCATCATGAGGAAGAGAAATGACTTTTGTTCAGTTATGCTCCCGGGTCC
i	i			ACCAGACATCCCATCAGGAGTTAGTCCTTCTGGCAAGCCAGCC
WI-20326	<u>.</u>	: •		ACATCACCCAACTGGTTTTCTAGATGTACACGAJTGTGGGACCTCTGTCTCAACCTCCGACTTTCAC
	3			ACCAGACATCCCATCAGGAGTTAGTCCTTCTGGCAAGCCAGCC
				TCAATTTTTTCTTNACTTACTCATAATATTGCTAGGATATCCACATAACCAAAAGCCAAAAGCTAACCTAACCTAACCTAACCTAACCTAACCTAACCTAACCTAACCTAACCTAAAAAA
WI-2032b 2	219 C	 g		TCATTGGTTAGGCTCA[C/G]CTTCCTGTATTGCTTCTGTTTTTCAAAGGG
				ACCAGACATCCCATCAGGAGTTAGTCCTTCTGGCAAGCCAGCC
	(ACATCACCCAACTEGTTTTCTAGATGTACACGTGTGGGACCTCTGTCTCAAACCTCCGACTTTCACAGA
VI-2032	2	1		
				CGTTTTCTTCTACATCTTGGGGNACATAAAGANGAAAGAAGAAGNAGCTGTCTTTTGTGTGTGTTTTGCTAAAGACTTACAGACTTAGGATTTGGAACTTTCAAAATACCTTACAGACTTAGGATTTGGAA
		· 		TTTTCATGGTGGTGGCACAGCCCAGGCTCAACAGAAACTAATACCTGCTGTTC[C/T]TCTGCCTCCAC
WI-2054b	188 C			CAGCCCTATCTCTTAGGCTCAAGGAGAATTTTACTGGATGGGCTGTCTTT
				CGTTTTCTTCTACATCTTGGGGNACATAAAGANGAAAGAAGAAGNAGCTGTCTTTTTGTGGTAGTTTTGCT CAGAGCTGCCTTACAGACTTAGGATTTGGA
	F C	(TTTTCATGGTGGTTGGCACAGCCCAGGCTCAACAGAACTAATACCTGCTT/CJGTTCCTCTGCCTCCAC
#C02-144	20	;		TGGGATTAAAACCCTGTTTTCTTCCTTCCCAGTTCAGTGTGTCCTTAATGTTTGTGCTAGAAATTAACA
				TTAACAGCAGTAAAAATAGCTCTTAAAATGCACTTGCCGTTCACAAGGTGTTTCCGTGCTT[T/C]TGA
				TATCATCTGATCTTCCCAACCAGGGCTTATTTATGCCTAGGTAAGGGGTAAGCAAACAGAGGGCTGTGT
WI-2573d	129 T	:		GAAGTGAAATGATTTGCTTGCACAAGGTCATATGGCTGGGCTTGGACGAG
				TGGGATTAAAACCCTGTTTCTTCCTTCCCAGTTCAGTGTGCCTTAATGTTTGTGCTAGAAATTAACA
-,				TTAACAGCAGTAAAAATAGCTCTTAAAATGCACTTGCCGTTCACAAGGTGTTTCCGTGCTTTTGATAT
				CATCTGATCTTCCCAACCAGGGCTTATTTAVCJTGCCTAGGTAAGGGGGTAAGCAAACAGAGGGCTGTG
WI-2573c	165 A C	c	•	TGAAGTGAAATGATTTGCTTGCACAAGGTCATATGGCTGGGCTTGGACGAG

	-			
				TGGGATTAAAAACCCTGTTTTCTTCCTTCCCAGTTCAGTGTGCCTTAATGTTTGTGCTAGAAATTAACA TTAACAGCAGTAAAAAATAGCTCTTAAAATGCACTTGCCGTTCACAAGGTGTTTCCGTGCTT[7/C]TGA
WI-2573d 1	129 T C	•	;	TATCATCTGATCTTCCCAACCAGGGCTTATTTATGCCTAGGTAAGGGGTAAGCAAACAGAGGCTGTGT GAAGTGAAATGATTTGCTTGCACAAGGTCATATGGCTGGGCTTGGACGAG
				TGGGATTAAAAACCCTGTTTTCTTCCTTCCCAGTTCAGTGTGCCTTAATGTTTGTGCTAGAAATTAACA
WI-2573c	165 A C	:	ļ	CATCTGATGTTGCCCAACCAGGCTTATTTTACTTGCCTAGGTAAGGGGTAAGCAAACAGAGGCTGTG TGAAGTGAAATGCTTGCTGCAAAGGTCATATGGCTGGCTTGGACGAG
				TGGGATTAAAACCCTGTTTTCTTCCTTCCCAGTTCAGTGTGCCTTAATGTTTGTGCTAGAAATTAACA
WI-2573b	165 A C			CATCTGATCTTCCCAACCAGGCTTATTIJACJTGCCTAGGTAAGGGGTAAGCAAACAGAGGCTGTG TGAAGTGAAATGATTTGCTTGCAAAGGTCATATGGCTGGGCTTTGGACAAG
				TGGGATTAAAAACCCTGTTTTCTTCCTTCCCAGTTCAGTGTGCCTTAATGTTTGTGCTAGAAATTAACA
WI-2573a	129			TATCATCTGAATCHTGCTTGCACAGGGCTTATTTATGCCTAGGTAAGGGGGTAAGCAACAGAGGGCTGTGTGTG
 	1		,	GACTTCATGCTCATGAACAAGCATTTGTCTTAATTTACAGACATTAAGAACAAGCTTTCC(A/G)CTC CCACTTCCCTCCCACTATCACCTCAACCTCTTAAAGAGGTTTCTTTAGGTCCTCTGCAT
WI-2868b	60 A	: 	ŀ	ATCATGGAAGCCAACTACTCTATTAACGCTTTCCCAATGATGCAGCCCAGTTCTGCATACAGTTTGTA CAGAAATGCTATATTTATGGAAACAGCTGAAAATGAAATATCGATATAC
				GACTTCATGCTCATGAACAAGCATTTGTCTTAATTTACAGACATTAAGAACAAGCTTTCC[A/G]CTC CCACTTCCCTCCCACTATCACCTCAACCTCTTCATCCACTTTAAAGAGGTTTCTTTAGGTCCTCTGCAT
WI-2868	60 A (9	•	ATCATGGAAGCCAACTACTGTATTAACGCTTTCCCAATGATGCAGCCCAGTTCTGCATATACCAGAAATGCAAATATCGATATAC
				CATGCTGTGTAACCTCTGTGCTGTCGGGGAAATTAGAGCAAGGAATTGTATAATCCTAGGC
				I I CAAGGAGCI I CI CA I CI CA I I GAGGAGACAAGA I GAACA I CAGGAAA I GAALAGA I AGAI AGAI AGAI AGAI A
WI-2870b	131 T (:	:	TGGGCTTTTTACAAAGGAGGGCTTT
				CATGCTGTGTAACCTCTGTGCTGCTGTCGGGGAAATTAGAGCAAGGAATTGTATAATCCTAGGC TTCAAGGAGCTTCTCATCATTGAGGAGACAAGATGACATCAGGAAATGACTGGATAATGA[7/C]
WI-2870	131 T C	- 1		AGAAATGAATAGAGCCCCATTTTAAATTATATCACAGCTTTATGTCCACTTCCTGTTCCTGCCATCAC TGGGCTTTTTACAAAGGAGGGCTTT

				TTAGCACACATATCTGTTGTGGGACTTAACTGAGACAAGGCATAAAAAA[T/A]CAGCACTGGGGCA CAGAGGGAGCTCTATGCATTINAATTCCTCATACCTACCCTCCTCTCATTCAATGAGTCCTTTGAGT CAGAGGAAAAAAAAAA
WI-2954c	49 T A		i	GAG
				TTAGCACACATATCTGTTGTGGGACTTAACTGAGACAAGGC[A/G]TAAAAAATCAGCACCTGGGGGCA CAGAGGGAGCTCTATGCATTTNAATTCCTCATACCTACCCTCCTCTCATTCAATGAGTCCTTTGAGT
WI-2954b	41 A G		•	CCTTGGAAAGACTCTATTCCCTGGGCAACCCCCTTGGTCTCTGGCCATCCAT
				TTAGCACACATATCTGTTGTGGGACTTAACTGAGACAA(G/T)GCATAAAAAATCAGCACCTGGGGCAACAGAGGGAGCACTTTGAGTTTTAATTCCTCATACCTCCTCTCTCT
WI-2954a	38 GT			CCTTGGAAAGACTCTATTCCCTGGGCAACCCCCTTGGTCTCTGGCCATCCAT
				ATTACAAATCCTACCTAGCAACTGCTGACACTTCCCAGTTAGACTCACCAGCATTTCTAAGA[T/C]GCTGCCAGCAATAAGCTTTCTTAAAACAATTTGTGTAAACCTCCTCCTTCCT
WI-2971b	62 T C -		**	ATTICCTITIGNTCCCCTGACATTCTGAAGGCCACGCTGGTCTAGATGTATGT
				CTGCCAGCACCATAGCATTCTTTCAAAACAATTTGTGTAACCTCCTCCTTCTTAATAAACCTAAC
WI-2971	62 T C-			AGTICITIVATGITATICTGAAAAAACCTTTTACTTAGGGATTTGTCT
				TTCCTGGGAAAGAAAGATGGGGGTTTTTNTTGTTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTTNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAAGG
WI-2995d	133 A T -			GAATGAGAACTAGAAAAGTGTI
- WI-2995.	ر م م			TTCCTGGGAAAGAAAGATGGGGGGTTTTINITGTTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTTNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAAGG
-				TTCTGGGAAAAAAAAAAAAGTGGGGGTTTTTNTTGTTCTCTGACTACAATCCAGAGATAACATCTTTGCC
				TCCAGTTTTNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAAGG
WI-2995d 133 A T	133 A T -	:	<u>:</u>	GAATGAGAAGAAGTGTT

				TTCCTGGGAAAGAAAAAAGATGGGGGTTTTNTTGTTCTCTGACTACAATCCAGAGATAACATCTTTGCC
				AATCTTTCTTTCTGGT[@/cjtTTAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAAGG
WI-2995c	151 GC	i	•	AATGAGACAGAACTAĞCAĞAAAGTGTT
				TTCCTGGGAAAGAAAGATGGGGGTTTTTNITGTTCTCTGACTACAATCCAGAGATAACATCTTTGCC
				TCCAGTTTTNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAAGG
-				/IJAAATCTTTCTTCTGGTGTTTAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAA
WI-2995d	133 A T			GAATGAGACAGAACTAGCAGAAAGTGTT
				TTCCTGGGAAAGAAAGATGGGGGTTTTTNTTGTTCTCTGACTACAATCCAGAGATAACATCTTTGCC
				TCCAGTTTTNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAAGG
				AATCTITCTITCTGGT[G/C]TTTAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAAG
WI-2995c	151 GC	•	***	AATGAGACAGAACTAGCAGAAAGTGTT
				TTCCTGGGAAAAAAAAAAAGATGGGGGTTTTTNTTGTTCTCTGACTACAATCCAGAGATAACATCTTTGCC
				TCCAGTITTNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAAGG
				AATCTTTCTTTCTGGT[G/C]TTTAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAAG
WI-2995b	151 GC		8 8 8	AATGAGACAGAACTAGCAGAAAGTGTT
				TTCCTGGGAAAGAAAAGATGGGGGTTTTTNTTGTTCTCTGACTACAATCCAGAGATAACATCTTTGCC
				TCCAGTTTTNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAAGG
				//////////////////////////////////////
WI-2995a	133 A T	•		GAATGAGACAGAACTAGCAGAAAGTGTT
				GTGGTGCAGTTCATCCTCTGGAGCTCCCTGTGAGATCAGACTGGAGCCAGTCTCCAGCTTGAGACCAC
				ATCTCACTTAGCTCCTT[C/T]CCTGCCATATCCTGTTTTCCTTACTCCTATCTCCTGAGACTTCTTCCT
				GAATGAATTACATGCACTCAATCCCTGCCTCAGTCTCTGCTTTNAGGGAACTTGACCTAAGACAGAA
WI-3147	85 C T			ATCTTAGTACCAAATACTTTGCAAGG
				ATTCTGTAATGTTTTCACTGCTTCCAGTAAAATTCTTTATTGAGGTCCATGTCCATTACCTCTACTTA(
				T/CJGACAAGCAAGAACAACAACAGAAAAGCCTCTGTTTGCAATCTGGCCTCTTATAAATACTTTCTG
				TATATITITAAACAAGTACTGTAGAGTNATGAATCATTACATCCTTAATAAGCATATCAAAATTTTAC
WI-3234b	68 T			TCAGTAATTCAGAAGAAAGGACAATGGAATGTACTTATTTTNATATCTTAT
				ATTCTGTAATGTTTTCACTGCTTCCAGTAAAATTCTTTATTGAGGTCCATGTCCATTACCTCTACTTA
				T/C)GACAAGCAAGAACAACAACAGAAAAGCCTCTGTTTGCAATCTGGCCTCTTATAAATACTTTCTG
				TATATTTAAACAAGTACTGTAGAGTNATGAATCATTACATCCTTAATAAGCATATCAAAATTTTAC
WI-3234	68 T C	:	•••	TCAGTAATTCAGAAGAAAGGACAATGGAATGTACTTATTTTNATATCTTAT

			GTTTTGCTAGACTAGGAGTTTCAGCTTCATCCAAATCCCTTTAAGGATANTTAGCTCTGCACTCATCC
WI-3292b	106 G A	ı	GCCATGAATATTTTCCATTGTTTCTCATTAATTAATTAAT
 			GTTTTGCTAGACTAGGAGTTTCAGCTTCATCCAAATCCCTTTAAGGATANTTAGCTCTGCACTCATCC
			TCCCTGTCCCCGTCCCAAGCCTATGTTACTGGTATGCTGAJTGGTATTGGATTGG
WI-3292	106 GA	1	GACACAATGGAAAAATGGAAAACATTCATGGAAAAAAACCCATTTCAATC
			CCATGAACCATGGGCTACA(G/C)ATATTCCTAAACTTCAGAGTCCCTCCTTACTGGAGAGGGATCCA
			CTTTTAAAATATGATTTCTTGAAGTGGCTGCATACTATTCCTTCC
WI-3355	19 GC ::	•	AAAAAAATCATCAAAAAGTCGAAGTTAGTTTTNATTACCTTCACCTTTTCAATGGAAAACTTTATAA ACTGTGGATCAATTTATATTACTTTTGGATCAGTTTAGATGACTTTNAGTTG
			CCATGAAGAATGAGTTCCTCCCTCCCTGGGTCACGTCTAAGAATAGCACACCCTTGAGAATTTNACT
	-		TAGCACGTGGCATTGTAATGGCTGGATTTCCTCCGCTCTAAGACACACCTTTATGCTTTCNAAGCTTT
	(·	CTGGAATTGGGATGAATCTNACATTCAATGTGCACCCTTCGTGTGGGATCACTTCTCC[G/AJTGCCCC
WI-3408	194 GA	1	ATCTCTGGNAGAAGCCACTGGGAAGTCGAAGGAGTGACTTCAAATCAGG
			TAACTTATGCCTCATCTGGCTTACTGCTTAGTTCCCATTTGTCATCAGTGCACTTAAAAAATTATTTT GAAAAATTGCCATTTTAATATCTTTGGAACTTCCTAACACATTACCTATTTTNAACCAAACGAA
			AGGTGATTCCTTATGGGAAAATATATACAGCAAGAAAAAAAA
WI-3505b	131 GA		GTTTAATTGGGAAATATGTTTGCATAT
			TAACTTATGCCTCATCTGGCTTACTGCTTAGTTCCCATTTGTCATCAGTGCACTTAAAAAATTATTTT GAAAAATTGCCATTTTTAATATCTTTGGAACTTCCTAACACATTACCTATTTTNAACCAAACIGAI
	7		AGGTGATTCCTTATGGGAAAATATATACAGCAAGAAAAAAAA
WI-3505	131 GA		GITIAATIGGGAAATATGTTTGCATAT
			GCTAGTAAGGTTCCACCTAAATGGTTCCAAGTCAGGAGAGTCACTAAATGTTTTGAGAAATAAAAGT
			GAAAATCAATGTGTTGCTTCACATGTTAACATGCCACAGTGTCACAGAGGGCTTGAGGGTTTGTGTGTTGTGTTTGTT
WI-3564b	177 CT	-	AGTGTCACACATGCTACCTTCACAAAACAAA
			GCTAGTAAGGTTCCACCTAAATGGTTCCAAGTCAGGAGAGTCACTAAATGTTTTGAGAAATAAAAGT
			GAAAATCAATGTGTCTTCCCAGTGTATTCACATGGCACAGTGTCACAGAGGGCTTGAGCGTCTGAGCG
WI.3564	177		TGGGACTTCACTGGTTGACTAACGTTAACATGCATGTCTGTT[C/T]AACAAGTGTTTGTGGTGTCATC
-			AG G CACACACAAA

			AATOTOCATOTOCACOTOTOTOTOTOTOTOTOTOTOTOTO
			AGACCAGTTTGCCTTCACTTAGTAGGGCCAATGATAGACTTTTTAGGTGCTACCAAAGGGTACCTGC
WI-3649	64 A G		ACAGCCACATCATATGTCACAGTAGGTTGCAAAGGACCTGTCTAGACTCTTTCTGCCTGC
	 		ACAGTACACATGGCCCCATTATGGAAACAATCATCTGACTTATGTTACCTGAGAAGTTCCCTCTCTAAATTTAAACTACCAGGCGGAGTGCTTTTATAGTAATTAAAATTTTATAGTAAAAATGTTTTAGAAAATGT
WI-3674b	133 G C	•	/cjaagaaaaaagggagggggggggggggggggggggggg
			ACAGTACACATGGCCCCATTATGGAAACAATCATCTGACTTATGTTACCTGAGAAGTTCCCTCTCTAA
			/cjaagaaaaaaaaaaagargargargargacactatttaaaattgtaacttggtcaaatgattgtt
WI-3674	133 GC	***	AATICITAATTAATTGTGTTTTATGTTTTNATTACTGCCAATCACACCAAG
			CAATATAGACCAAAATGACTGCCACAAAGAGAAATTAGTGGGATCTACATTTAGAAACCACATGTTTTTCATCTTTTCATCTTTTCAACACCAATTCACTTTATTCAAA
			T[G/A]AGCATTTGTCCAATTTAAAGTCAATGAAAAATAATGTACATTTTTCAACAAGTATACATTAA
WI-3682	137 GA	•	GCCCTGCAAAAGTGCTTATATGCTAT
		=	GGTATGTTGAGGTCAGCTAATGGTCACTGTGGATTTGGAGTGAATCTAAATGGATTTTTTGCCCTTGGA
			CAAAGACCAAGGACAACTGTAGGACTTCTGCATGGTCTACCTCACTTAGGCTTCTTGATTAATAACTC
WI-3854b	194 G A	į	TGGTTCAGGAAGGCAAGGGCAGTTATGACCACTTTACAACTGAGGAAATCAAAAGCAAAGGAAATGGCCTGTCCCACTCCACAGAAATGGTTATAACAGAGGTCAGAGGCCA
			GGTATGTTGAGGTCAGCTAATGGTCACTGTGGTTTGGAGTGAATCTAAATGGATTTTTTTGCCCTTGGA
		-	CAAAGACCAAGGACAACTGTAGGACTTCTGCATGGTCTACCTCACTTAGGCTTCTTGATTAATAACTC
			TGGTTCAGGAAGGCAAGGGCAGTTATGACCACTTTACAACTGAGGAAATCAAAGCAAC[G/AJAGAA
WI-3854	194 GA	•	GTTAAATGGCCTGTCCCACTCCACAGAATGGTTATAACAGAGTCAGAGCCA
			AGCCAGCCACATCATGTTGAGTCCTGCTCATTCTTCCATCTTTATTTTCTCTCTACTGCCTTCACCTT
			CCATTAACAAGAACTCTTGTGATTACATTGTATGTTTGTGGTTACACTACAGAATCCAAGATGACCTC
			CCCATCTCAAGGTCAACTAATTAACACCTTAATTCTATTTGCAATCTTTGTCATTACCATAACATAIT
WI-4039	210 G A	:	CATGG[G/A]TTCTGGGATAAGGGGTAGACATITITATGGGAGGCAIIA
			GAAAAATGATTTTTGATTTCCCTTCCTATCTTCAGATTATTGGAGTGTCATTAGAAAACTGATAGT
			AACCTITTATTTGATGAAACTCTGTCTATAATTAAACCTTCCTCTTCCTGCTTTATTTTGCC[T/CJACA
			GTTTAGGTAAATAAAAGATGCCCAAGAATTCAGTATTCAAGTACAGTAAAAAGTAGCAAGCA
WI-4110b	WI-4110b 130 T C	:	GTAGGGACAAGTNCAGAAAAAGGGAGGAGGTNGGGGGGTTTTCTGGGAAGA

			GAAAAATGATTTTGATTTCCCTTCCTATCTTCAGATTATTGGAGTGTCATTAGAAAACTGATAGAAAACTGATAGAAAACTGATAGAAAAACTGATAGAAAAAAAA
		··	AACCTTTTATTTGATGAAACTCTGTCTATAAATTAAACCTTCCTCTTCCTGCTTTATTGATTCCTATACCATGCG
	(GTTTAGGTAAATAAAAGATGCCCAAGAATTCAGTATTCAAGTACAGTAAAAGTAAAAAGTAAAAAAAA
WI-4110	130 I C		GIAGGALAAGIINCAGAAAAAGGGAAGGIINGGGGGGGGIIIIGIIGGGAAGAAGGAAG
			ACCTCTCTATGCCTGAAAGCCCTCATGAGTGTCCAGCAAGGGCTTGGGTGGG
			AATGGAAGGATAAATAAAGGTAACTACGGGGAAGAACAGGACAAGAACAGAACAGAAGAAGAAGA
			AGAGGAAGGAATCAGTTGTGTGCCATTCAAAGTTAA(GA)CAAGGTACCAAATTTGTTTTCTTTCA
WI-4119b	168 GA	7	TGAGACCGTCTGCATTCTTTTGATTTTTAAAGGGCTCTGTTGATCATCATCTTCA
			ACCTCTCTATGCCTGAAAGCCCTCATGAGTGTCCAGCAAGGGCTTGGGTGGG
			AATGGAAGGATAAATAAAGGTAACTACGGGGAAGAACAGGACAAGAACAGACAG
			AGAGGAAGGAATCAGTTGTGTGCCATTCAAAGTTAAIGAICAAGGTACCAAATTTGTTTTCTTTCA
WI-4119	168 GA	:	TGAGACCGTCTGCATTCTTTTGTTTTTAAAGGGCTCTGTTGATCATCATCTTCA
			CAAAGTCAGATTTTGATTATTCAGGATAACAATTTTGAAAATAGAAAAGTG[T/G]TTTAAACTATTT
			CAAATAAACAATAAAGAAAAACATGATGAAATTCTTCGTTACATAATTGTATAGAATTTAGTGGGG
		— •	TTCTTCCATGACATTGGCTTGTTCTTTCTCTCAACAGTGGGTGG
WI-4123b	51 T G		AGGCACAAACAACAGTGAAGAAACCTTTAGCAACATTTCTGCTGAATGTGTG
			CAAAGTCAGATTTTGATTATTCAGGATAACAATTTTGAAAATAGAAAAGTG[T/G]TTTAAACTATTT
			CAAATAAACAATAAAGAAAAACATGATGAAATTCTTCGTTACATAATTGTATAGAATTTAGTGGGG
			TTCTTCCATGACATTGGCTTGTTCTTTCTCTCAACAGTGGGTGG
WI-4123	51 T G		AGGCACAAACAACAGTGAAGAACCTTTAGCAACATTTCTGCTGAATGTGTG
			TTGTACATGTTCATCCCCTCCCCATTCTTTTCTGTCTTATAAAGAACCTCGCTTCTTCTCCAAGT
			CTTACTTCTCCACCTGAGCCACAGATCTCTTTATTTCCATCAAAGCTTTCTCAGCATCTTCTATATACT
			GTGCTGT[G/C]CCTTGTGAAGAAGCCAGAGCCGAGCATACCAACATGATCTTTTGCTTGAACTGTAGT
WI-4149b	145 GC	:	AGGAGACAAGACAGATGTGCGGGTCCCCATGATATAAGGTAATTG
			TTGTACATGTTCATTCCCTCCCCATTCTTTTCTGTCTTATAAAGAACCTCGCTTCTTCTCCAAGT
			CTTACTTCTCCACCTGAGCCACAGATCTCTTTATTTCCATCAAAGCTTTCTCAGCATCTTCTATATAC
			T/CJGTGCTGTGCCTTGTGAAGAAGCCAGAGCCGAGCATACCAACATGATCTTTTGCTTGAACTGTAG
WI-4149a	137 T C	•	TAGGAGAGACAGATGTGCGGGTCCCCATGATATAAGGTAATTG
			TAACACACTITICATITIGGTTTCCTATTACTGCAGTTAAAGGACCATCCATTATATTACAATTCCCTC
			AGTICTATGCTTTAGAGTNCTATTATAGGACTACTGTAAAATTTCAGAGGGAATTACTCCTTGGAGTA
			GGGGAATGAGTTAAATAATCTACCACATGCCAATTGCAGGGACTGTGGTTAA(GA)ATGTCCTCTT
WI-4182	188 GA		TGCCCCTTCCCAAGTTCTTAAATTCCTAG

	1 1 1		
			AGAGACGTTGAATGGGGACATCTTTTCTATTTCGATTTTAGTTTAACATTTGATAAGAATTGATGAAA
WI-4230	93 T	•	TTTCCATGGTAAAAAGAAGTTAGAAAAAACAGCCTATTTTCTTAATGTAAATGTAATTCTGAAT ACATTTTAAATGGAGAGAATGAATGAATGAACTTTGAAATTTTGAATTTATGG
			GAAAATTCCATTGAAGTTTTGACCTTGAACTGATCTCATTAATACTTTTNCTTGTAGTGGTTGTATTTTCACAACAGAACAG
WI-4241	118 C T		TTAGCACTGTTAGCACCAGAAACTGTGAAATTATCTCCTAGATATTCTTCAGAATCTAGGATGGAAG
			CAGGGCTTTTTGGGAAGATCAGTTAAAAAGCAGANCTGGACCTAAAAAAGACTAAAGCACATTTCAGCAT CAACAAAAGGTGACATGTTACCCATGAAGGTCCCTGGAGGATTAAAGATCAAATAAGAGCCTCAGG
WI-4271b	151 A	•	GGACTGAATCCAACGGGGAATATTAGAGTNCTACAGGGAGCCCCCAACCCTCCCCCCTTTGTTTAGAAGGTCCAGTCAGGGGC
			CAGGGCTTTTTGGGAAGATCAGTTAAAAGCAGANCTGGACCTAAAAAGACTAAGCACATTTCAGCATCAACAAAAGGGACGATTTCAGCATTTCAGCATTTAAAAGATCAAATAAGAGCCTCAGGAAAAAAAA
WI-4271	151 A		GGACTGAATCCAACGGGGAATATTAGAGTNCTACAGGGAGCCCCCAACCCTCCCCCTTTGTCTCAGG
WI-4389b		1	AATCGAAACATTGATTTTTTTGTAAAGGAACCACATTATTTAT
			AATCGAAACATTGATTITITIGTAAAGGAACCACATTATTTATGATATTTGTGCCCAGTTTAGCATAT GAAATTTGAAAGGGATGAACCTGGAGGAAGAGAATAGAAAGGATATTATTGCATAACCTTTGGA
WI-4389	156 GA	•	AGGTAAGATGTGAACCTATACA[G/AJTNGCAAGGAAAGTAGAAATGGAACAGACATGATTGACTTA AGAGGTATTGTAGGAACTGGAAGCGGTAA
			GATGACAATTATTGTGTATTGGCATTTTAAA(A/G)GTACCATTCCATTTTCTTGGGTTTCGTGTGTTTTTTTGTGGTTGGT
WI-4488	31 A G		CTAAACAACCTAATTACCCATGCCAAAGTACGTCCAAACTGATCTTTAAAGAACATAAATCAAATTG TATTATCCTATGCTTAAAATGCTCAG
			ACCATCAATGTATCACCTTCTAAAATTTATTAGATGATTAACTGGCTCTGTTAAAAAATAAAAACCT GTCTTGGACATTGAAAATAAAACATTACTATTGGTCATTTCTGCTACTTACAAAGGTACTGCACTA
WI-4491	145 G C	•	AACAAGTTAAGG/CJGTTTTTTGGAGGGAAAAATCATAAAAATGCATAAAATTTCTACCACTGTCA

			TTGGTTGGCATTITTAGCCTCATAACAACTATTTACAATCATAATTGTTACTCTTATTTTACAAACAA
WI-4584	144 A G	;	GTCCTAATGTGGTTTTGAAAATAGGTGTGTTTAATTTGTTTATCAGTATGC
			TTTCTGCATTTGAATGTGTGTCAGACTTCAGAGGAACCCAGGAATCTCATTTATTCAGTACAATACTTGCAGTGCCCATTTACTCAGAGAGATCTCAGTTTAACTTTCCAATTCCACATTTACATTTACAGTGCTCAGTTTAACTTTCCAATTCCACATTTACATTACATTTACATTTACATTTACATTTACATTTACATTTACATTTACATTTACATTTACATTTACATTTACATTTACATTTACATTTACATTACATTTACATTAC
WI-4639	185 C T	-	TGACCATATGACTTGGGGAACATTATCTCACCTATCTGAGTCTGTATCC(C/1)CATCTTTAAGGACACCTATCATAGTAATTGTGAGGATAAAATGAAATTAA
			AAATGAATCCGCTTTAGAGCAAATACCAGTAAGGGCTGGTGCAGGATGGTGGTGGTGGTGAGAGAGA
WI-5327	63 A	:	TGAGTTTGAAGGTTGCATGAGAGTAGGAGGAGGTAGTTTCTACTTATAGGGTTTATATAAGTNTGCT TCAATAGAATGGCTCTTTCGGATGACAATGATGAACTGTTCTAAGCAGACAG
	1		GCTTTTGAGAATGAAAAGGGGAGCCTGGACCATTGCAGGGCTTCTTCATCTCTGATTATTTTGTGTAT
			TTATTGTTCACTTATTTATC/JGTCTGTCTCCCCTTCTGGTATGCTTGTGTCATGAAACAATGGATTC
WI-5390	87 CT		ACGAATGGGTTCAGAATTGAAACCTGTGAATCTATGGAAGAACAAACGAAT
			CCTTGCCTGCTTTATGCATAATGAGAATAGAGTTGACTCTCCTGTCAAGAAATCAATTATTAAGCAGT
			GCAAACATTATTTTAATTT[G/A]AAAGAAACTTGTTTCTGAAACTTTGTACTCTTGTACTTGTAGINAAATTG
WI-5404b	87 G A		GCTACTTATGGAAGGGTTTTAGAGTTCATAACAA
			CCTTGCCTGCTTTATGCATAATGAGAATAGAGTTGACTCTCCTGTCAAGAAATCAATTATTAAGCAGT
			AATCTTTCCTTCTCAGCAGTTTCCATGGTCGTGAATCCACCCCATCTTTTCACCAGTAGCAAGATT
WI-5404	87 GA	•	GCTACTTATATGGAAGGGTTTTAGAGTTCATAACAA
			TAGGAAAGGGGATGGTGATGGCCTCTGAGACATTTAAATCTATTCTTTCACCACTCACACTGCCGCCA
			TATCTCCTC[A/C]CCAACACCTCTGTTTTCTGACAGCCAAGTTTCCATCAGTTGATATGGGACTATTT
WI-5545b	77 A C	;	GAGATACACCATGAATTITATTITCATTTCA
			TAGGAAAGGGGATGGTGATGGCCTCTGAGACATTTAAATCTATTCATTC
			TATCTCCTC[A/C]CCAACACCTCTGTTTCTGACAGCCAAGTTTCCATCAGTTGATATGGGACTATTT
			GTTGCAAAACAATTGTTAAAAGATTTGGCTGACTTTGGCTGAATTTGCTACAACTCCAAAAAGANIC
WI-5545	77 A C		GAGATACACCATGAATTITATTITCATTICA

			ACTCAAGTTTGGGGGGATAAAATCAGAAGTTTCTATGTACAACTTAAATTTTGCTAAGATTTTTATTGT
			GITTATACTGGAATCATGTGAAGACATTCTAAAGGGTACCCAGGTGCACATAGTTTTAAGGGAATCA
WI-5860b 13	134 A G	:	ATTICCAAATCATCAACTICTGTAT
			ACTCAAGTTTGGGGGATAAAATCAGAAGTTTCTATGTACAACTTAAAATTTTGCTAAGATTTTTATTGT TTCTTTTTATATAAATTATGGATTTGTTTTTACTTCCCTAACCAACC
		-	GITTATACTGGAATCATGTGAAGACATTCTAAAGGGTACCCAGGTGCACATAGTTTTAAGGGAATCA
WI-5860 13	134 A G		ATTICCAAATCATCAACTICTGTAT
			GCAAACAACCTATTATACCTGATTCCAACCCCAGGTCTACTAACATTAATCAACCTAACCACAATAC
			TATATATTGTCCTGTTCTGAATTATTTTCATTTAGAATCTGATGGGGTTTTGCATGTGAGATTTGCATGTGAGATTTTGCTTTCAGGGGGGGG
WI-6106 208	- U	:	TAATT[C/G ATAGTAGGTCACACAAAGTCTATATTGTATGTGAAAGGAAAG
			AAGATAGACAAACATATGCCAGACCAACAAAAACACAGACCTGTCATATTTCTGAGAGAAATGTAC
		• • •	ATTGAGTCTTCCTTCTCTGGGACTATAAGGAGATCAGGTGGAATAAAACGAAGGAAAAAAAA
			AAACCCTATATTTNCTGTCTTGTGCATACTTTAAAATGTATAATGTGGGAGAGAAGGAATTTTGATGT
WI-6109d 12	129 T C		GNAAAATTATCCCCTGAAAATTTTATACCA
			AAGATAGACAAACATATGCCAGACCAACAAAAACACAGACCTGTCATATTTCTGAGAGAAATGTAC
			ATTGAGTCTTCCTTCTCTGGGACTATAAGGAGATCAGGTGGAATAAAACGAAGGAAAAAAACCTAA
			ACCCTATATTINCTG[T/C]CTTGTGCATACTTTAAAATGTATAATGTGGGAGAGGAAGGA
WI-6109c 14	147 T C		TGNAAAATTATCCCCTGAAAATTTTATACCA
			AAGATAGACAAACATATGCCAGACCAACAAAAACACAGACCTGTCATATTTCTGAGAGAAATGTAC
			ATTGAGTCTTCCTTCTCTGGGACTATAAGGAGATCAGGTGGAATAAAACGAAGGAAAAAAAA
			ACCCTATATTTNCTG[T/C]CTTGTGCATACTTTAAAATGTATAATGTGGGAGAGGAAGGA
WI-6109b 14	147 T C		TGNAAAATTATCCCCTGAAAATTTTATACCA
			AAGATAGACAAACATATGCCAGACCAACAAAAAACACAGACCTGTCATATTTCTGAGAGAAATGTAC
			ATTGAGTCTTCCTTCTCTGGGACTATAAGGAGATCAGGTGGAATAAAACGAAGGAAAAAAAA
			AAACCCTATATTTNCTGTCTTGTGCATACTTTAAAATGTATAATGTGGGGGGGAGAAGGAAIIIIGAIGI
WI-6109a 12	129 T C		GNAAAATTATCCCCTGAAAATTTTATACCA
			AATGCCTATCACCTTCCATCATGCTGCATAACTGATTGAT
			TTCCAACACATGCTGTTTTGTTCAATGA[T/C]GCATATCCCAAGTGCCTTAGACAATGCCTCATAC
			AGTGAACAGTATTTGACTAAAACATACTTGTTAAATCAATAAAATTAATCAACTTGGCATATGCAGG
WI-6112 9	96 T C	•••	GAAC

				TAATTGCACAACTTACATATCAGGGTTTCTGATTGAAAGGAAGAAGAATATTCCTTTTAGTGATT
				GCTTAATATTGAATTCATAATAGCAGCACCATCT[T/C]GCTCCTTATAAATGTGTTTAGAAGAAGGAATTGAGTGTGGGGGGAAGGAACTTTTTATATATA
WI-6244	103 T C			CCTATTITCTTTCCCAAGGATGGATACATTTCTAC
			•••	CTGGCCTTATAATCCAAGTTTAGGATTAATCTTACCCCAACTTAATAGACTTCCAGACAGTTGCAGGTT
,				GGGTCTTATTGACTTTCAGGGAGCCTAGAAGAGCTGGACAAAACCTGCTTTTGCAGAAAGAGTCG
WI-6268	124 CT		:	GGGTTCCAAAGATTTCGTTACGATTTTTA
				AGGTGCCATTTAATCCATTCAAATTTGGAAGCTACATCTTCAAGGGTCTGAGAGAGCTCACTCCCCCC
				ATATATICCCCCI I I ACA I GI I I I CI I A I AAGACA I ACAGI I I AATA I CACATATACAGATGGACCATGTGAATAGGACCATGTGAATAGGACCATGTGAATAGAA
WI-6336b	234 C T			GTACCCCAGTGCATTATGTCTTGGTAGAGCCIC/TJTGAGGACACTGACAGT
				AGGTGCCATTTAATCCATTCAAATTTGGAAGCTACATCTTCAAGGGTCTGAGAGAGCTCACTCCCCCC
				ATATATTCCCCCTTTACATGTTTTCTTATAAGACATACAGTTTAATCAATTAACAAACTAAACAGCII
000				ATATACTGGCAATATATTACAGATGGGTTTATGTCAGAGTAATAGATCACATGAAATGGACCATGTGGACCATGAATGGACCATGAATGA
WI-0330	234 0	•		ATTACACT TO THE CONTRACT OF TH
				TTGGATACAAAAATTCAGTTACACAATCAGTAGCALICAAAALIAGILAIGAGGALIAITAAAAAACATTTTAAAAACAGGCACAAT
				ATTCTAANGGCATATGCATTCACCATGGGCTTTTGAATGTCCTCACTCCCAACTTCACATC
WI-6381	92 C A	<u>:</u>	:	TACAGANGCGGCAAAAGATCAGAGTTCAG
				GGTTGAGGCATTGGGAAAGGCAGAAATTGAGGCAGTAGAAAATGGACATTTTAGGAAAAAGAGAAGT
				TCAGAGGCAAAGTCATGACAGACAGGAAATACAAGGCTTAGGAAGACAGTAGTCTCTGTGGTTGAA
				ATTITIGGTGTCATAATAAGAAGTTTAGACTTTGGTGGTTGTAGTAGTTGTAGTAGTAGGTAG
WI-6436	198 C	G		GJATTGGGTGTATTCCACAGACAAGGTGATGTTCTAAGATTTGATATTTATT
				GAGGCCTCTTTGCTTTTCCTCAGGCTGTATCCAGGGTTGATATCTAGCCTATATGCCATATGT
				GTATGGCTAGTGTTTGTTCTGATTGGTTGGTTGGTCACACTGCCCAGATTGTTAAATATTTTGAAAATC
				GTATCTGGTTCTATTCATCTGCATTCTCTGATCTTATGTCTGGCTCTATT[C/I]ATCCCTATTCTCTGA
WI-6449	186 CT		;	TCTTATGTCAGACCTGAAGTTCCTCTAATTTTCTGTGGTGTATTTATA
				GAGGCCTCTTTGCTTTCCTCAGTCAAGGCTGTATCCAGGGTTGATATCTAGCCTATATGCCATATGT
				GTATGGCTAGTGTTTGTTCTGATTGGTTGGTGCTCACACTGCCCAGATTGTTAAATATTTTGAAAATC
				GTATCTGGTTCTATTCATCTGCATTCTCTGATCTTATGTCTGGCTCTATT[C/T]ATCCCTATTCTCTGA
WI-6449	186 CT			TCTTATGTCAGACCTGAAGTTCCTCTAATTTTCTGTGGTGTATTTATA

				GCTGGAGAGAGAGACCTCCAAAAGAAGAAACTAAATCAGAGTCTCTTGAGCAAGAGGAATTGAAAAAAAA
	1			TAAGAAATATTTTGAATGGAAATCTTAAGAATGATTTTATTGATCAGTTAAATGTTCTTCCTCTCTCT
WI-5463	_		•	ONG CONTRACT OF THE CONTRACT O
				AAGCAGTAAATCTTCGTTGTGGCAGTCAACGACATCATCAATGAAGACATGACTTGCTTAGAGCC
			•	AAGAAAAAGTAGGATTTTTGAAAGGCACAGAGAAAAGGGGTGTACTAGAGGAGAACTATGTAAGCAG
WI-6474b	76 CT		1	AGGTATAGAGGAACTAAAAGTATAAAAGAGTGAGCCATAACTTAGGGTACCATAA
			•	AAGCAGTAAATCTTCCATCATGCCATGGATGCCAGTGGGTAAATGTTATAGAAACTTCAGAGGANAC
				AGAGGCAAA(C/T)GTTGGTTATAGCAGTCAACGACATCATCAATGAAGACATGACTTGCTTAGAGCC
				AAGAAAAAGTAGGATTTTGAAAGGCACAGAGAAAAGGGGGTGTACTAGAGGAGAACTATGTAAGCAG
WI-6474	76 CT	•	i	AGGTATAGAGGAACTAAAAAGAGTGAGCCATAACTTAGGGTACCATAA
		-		GAACTCAATTAACTTTGCAACACTGAGAAAATCGGATTTGGAGATCTGCAAAGCTGAGGTTGAGATT
				TTGGACCTTGGTGATCCAAATGGGGAATGCCACGCTTCGAGGCCTGTCTATATGCTTTATTTTGTGA
		•		CACTGTCTATTTACCCTCCCCCAATAGTGGAGAATCAGAG[T/A]GCTCCTTGTCAGTGTTGCTACAGA
WI-6478b	175 T A			GAAGATATACAGGATGGAAGGACAGCTCCTCGTAGGACCTAGACACACTG
				GAACTCAATTAACTTTGCAACACTGAGAAAATCGGATTTGGAGATCTGCAAAGCTGAGGTTGAGATT
				TTGGACCTTGGTGATCCAAATGGGGAATGCCACGCTTCGAGGCCTGTCTATATGTTTTTGTGA
				CACTGTCTATTTACCCTCCCCCAATAGTGGAGAATCAGAG[T/A]GCTCCTTGTCAGTGTTGCTACAGA
WI-6478	175 T A	•		GAAGATATACAGGATGGAAGGACAGCTCCTCGTAGGACCTAGACACAGTG
-	i —			CACATTITGAATGCAACTGAGAAANTGGTTTTNTAGGCCTACCTTTTATTTAAGAGTACATCTGGCTC
				CAATGTTACCCCAAACATGCAAAACATAAGGCAACAATTCTGATCATTTTATAGGNTCCCAAGCCCA
				TTAGCAATATCTTA(G/A)TCAAATTTTAAAAAGAGAACAGGAAATAAGGAAGGCCTAACAGAGGAG
WI-6559	149 GA	•	•	TTAAATTGTGCAAAACTTATCAGTTCTTC
				TTCTTTATTGGTCCTACCAATGTGACTCTTTACCCAGGCCCACTGTTCCTATGC[G/A]CACTGGCTTTG
				TAGGCATTCACATCATATGTCTGTGTCCTGAAAATCTCAATTAATT
				GCTCTGCCTCATTTNCTCAGAAATTGAAGGCATTTGATTATNATTTTTTTGTTTGGGTCTGTGTAAAG
WI-6564b	54 GA-			GTTCCTTGGCAGGAGAACATGCATATGACTTTAAAATAAAGACCAACA
				TTCTTTATTGGTCCTACCAATGTGACTCTTTACCCAGGCCCACTGTTCCTATGC[G/A]CACTGGCTTTG
				TAGGCATTCACATCATATGTCTGTGTCCTGAAAATCTCAATTAATT
				GCTCTGCCTCATTTNCTCAGAAATTGAAGGCATTTGATTATNATTTTTTTGTTTGGGTCTGTGTAAAG
WI-6564	54 GA	:	•	GTTCCTTGGCAGGAGAACATGCATATGACTTTAAAATAAAGACCAACA

		•	
			CTAATCACAGTAGCACTGAACATGGCTCTAGTGAGGCCCTCAGT[C/- JAGTTCAGGCAGCTAAAAGGGGGGGGATTTCCTCCTAGTCCTCTCCCTAGAGCTAAATATGCATCTGG GAAAAATTAGGCTCTGGAGCACAGAGGTATTTTTCTAGAGAAAAAAAA
WI-6608b	46 C		MASC.
			POTATICACAGE AGCACTORACA CONTROLL CONTR
WI-6608	46 C	<u>:</u>	AGC
			GTTAGACAGTATCCAGCAAAAAGGTTATTTATACCTCTACTTTTCCAAAACGAGGAAACCTCCCCCAQCAJAAATCCCATCAACACACACACAGTCATGCAGAAAGGCATTCTGTTTACTCTGTTGGTTTCATGTAAATGCAGTTTCATGTAAATTCCAGGCTTCTTGGGTAGACCAAAACTAATGTTTGGGGTAGACCAAAACTAAATGTTTGGGGTAGACCAAAACTAAATGTTTGGGGTAGACCAAAACTAAATGTTTGGGGTAGACCAAAACTAAATGTTTTGGGGTAGACCAAAACTAAATGTTTTGGGGTAGACCAAAACTAAATGTTTTGGGGTAGACCAAAACTAAATGTTTTGGGGTAGACCAAAACTAAATGTTTTTTTT
9999-IM	68 C A		ATACACAATG ITAGAGCACACAAGAGA
W1.6670b	120 A G		AGATTAACATAATTATACTGGGGCCATTGTAGGGTTINGGGAGGAGTGTTTTTCTATCTGCAGCCAAA CAGAAATACTGTAGTACAGCAAAACCGTCTCAACAGTAAGCACACAATGAACGAAGTTGTAGCCA GCATTGCCATTCAGGGCCGGAGTCAGGGTTTGTGGGGCCAGAAGTTTAGACAATTTGGGGAATTCTGA AAAAAAAAAA
			AGATTAACATAATTATACTGGGGCCATTGTAGGGTTNGGGAGGAGTGTTTTTCTATCTGCAGCCAAAACAGAAAAAACCGTCTCAACAGTAAGCACAATGAACTGAAGAAAACCGTCTCAACAGTAAGCACACAATGAACTAAGAAATACTGTAAGCAAAAACCGTCTCAACAGTAAGCACACAATGAACTAATGAAGTAAGCACAATGAAATACTGTAAGCAAAAAAAA
WI 6670	000	!	GCATTGCCATTCAGGGCCGGAGTCAGGGTTTGTGGGGCCAGAAGTTTAGACAATTTGGGGAATTCTGAAAAAAAA
	1		TTTGAAAATAAAATCAAGCACCAATGTTTTAAC(T/C)CACATATATCATACAGTGCAGGATTTATGAACGTTACAAAATCAAAAATCAAAAATCAAAAATCAAAAATCAAAAATCAAAAATCAAAAATCAAAAATCAAAAATCAAAAATCAAAAATCAAAAATCAAAAATCAAAAATCAAAAATCAAAAATCAAAAATCAAAAAA
WI 67040	C		CTATTGCTCTTTAAATATGGTTGTACATGTCATCATTAATCGATTCATTGTTCTTCCACATGGTTATTT CAATGCAAGANCCGATCAGCATGAAGAGTCTAGTACAAGATAGGCAGACATG
	-		TITGAAAATAAATTCATGCACCAATGTTTTAAC[T/C]CACATATATCATACAGGGGATTTATGA
			ACATACATAAAATCAAAATCATACCATATAAACGITTACAAATAATTAATTCATTGTTCTTCCACACGCTTTTTTTT
WI-6704b	33 T C	•	CAATGCAAGANCCGATCAGCATGAAGAGTCTAGTACAAGATAGGCAGACATG
			TTTGAAAATAAATTCATGCACCAATGTT[T/C]TAACTCACATATATCATACAGTGCAGGATTTATGA
			ACATACATAAAATCAAAATCATACCATATAAACGTTTACAAATAAGTTTTTCATGTTCTTCCACACGGTTATTT
WI.6704	- H	;	CAATGCAAGANCCGATCAGCATGAAGAGTCTAGTACAAGATAGGCAGACATG

			CCATGGACAGTITAATTAGGAAGCTICGACTTGTTAGAATAACAGAGGAAGTCCCAGTTATCTACCT ATTCCTTAAAACACATTITGTCAGGCTGGAATGATTCCC[G/A]TAGTAAAACTCCAACATCCACACCT GCATAAAACATCGACTCCCAAGTGACTTTATTACTGAGTCGACACAGGATGTCCAGTGAGGCTC ATCTCCAATGAAGAGTTGACTTAGACTTAGACCTTCCTTGGACAGGGAGGG
0 / 0-iM	5 0 0		AAAACAAATGGAGAAAAAAATATATATTGTGGTCACAGTATAAAACAATACAATTAGTTCATATAACAAAATATGGAGAAAATATGGAGAAAAAAAA
d9929-IM	148 GC	:	GCCACACTTAAAAN[G/C]AAAGTCAACGTTTCTCTTCTAGGGNTCTGCACACATATTTATCACTGA GCAAATTTGGTCAAACAGTGGAGGNGAACTTACCCAAATCCCAGTTCCCTTCTTC
	į		AAAACAAATGGTGCATTGCATAATATTTGTGGTCACAGTATAAAACAATACAATTAGTTCATATAACAAAATAGAAAATACACAAAAATACACAAAAATACAAAAATACAAAAATACAAAAATAAT
WI-6766	148 GC		GCCACACTTAAAAN[G/C]AAAGTCAACGTTTCTTCTTCTTCCTTCTTC GAATTTGGTCAAACAGTGGAGGNGAACTTACCCAAATCCCAGTTCCCTTCTTC
			ACAGATAAAAGTCTTTATTCCCCTGTATGTTTACATAAGAAAGTTCTTTACAGACTTTTTTTT
WI-6787b	97 A G	į	ATGCTTTGTCTTGGGAAGGACGCGTTAAAGACCTATGATAAACACACATCCACATGACAAAGGA GAGTGCAATAGGGCAGAGTAGANTACTCACAGGAAAAGAGTAAATTCAGGT
			GAACCCACCAGGTCCTGTTATTTATTAAGGAGCATTTACATTATGATAGCAAGTTTCAACACATTCA TCAACAAGGCGGTCTTCAAATCAATCAGTCAACCCCCCCC
WI-6793	105 C G	:	GAGCCAGANTCCTGGCAATTCACCAGTTTCTCATCACAGGTAAAAAGGCAAC
			CACAATAATAAAATCACTCCCTACCTTGAAAACTTTA[T/C]AGAAGCATT1TTTAATTTTACAACACA AAGCTCAAACGNACCTACAATAAGTCTAGTAGTCTGTTTACGNGCCAAGGGATAAGGCTGAACAATAAAGTCTATAAACCCTTTAAAAATGTCTATGNACAAGTACAATTTCTTTTTGAGTTCTGCAGAGCAATGACC
WI-6810b	37 T C		ACTAAGNAATATTTTAAAAGGCTGAACAGAATCCAGCGGCAATGAAGTTAAT
			CACAATAATAAAATCACTCCCTACCTTGAAAACTTTA[T/C]AGAAGCATTTTATTTACAAGGCATTTTACAAGGGATAAGGCTGAACAATAAATCACTTTACGNGCCAAGGGATAAGGCTGAACAATAAGTCTAGTTTACGNGCCAAGGGATAAGGCTGAACAATGACG
WJ-6810	37 T C	i	AATTAACCCTTTAAAAATGTCTATGNACAAGTACAATTTTTTAAAAGGCTGAACAGCGGCAATGAAGTTAAT
			GCATGATTAAACCAGTGCAGAAAAATACCAAGTACATTGGGTGAACGATGAGCTAGCT
WI-6817h	145 C A	;	GCAGGGTAACĮC/AJTGTGGATACCCTGTGTGCTCTACTNGCCTCCAAAGGCATTCAGGGGATCATCA AAGATGTTGGACACCTTGTGTTCAAATCTTGGTTCAGGTGCGGCCTGTGCAG

			TOTAL CONTROL OF THE PROPERTY
			GCATGATTTTGTATCCAGTTAAGACCATCAGCATATACAACATCATCACTAACTCAACAAAGTTAGCTTTTTGTAATCCAACTCAACATGTAGCT
WI-6817	145 C A		GCAGGGTAACIC/AJTGTGGATACCCTGTGTGCTCTACTNGCCTCCAAAGGCATTCAGGGGATCATCA AAGATGTTGGACACCTTGTGTTCAAATCTTGGTTCAGGTGCGGCCTGTGCAG
	 		GATGGAAAGCCATTITATTITTCTCTAAATTTTAAAATAGAAGACTTTAATGGAAAACATTTAGTAC
WL-6819h		;	CGTCAGTAGTACACATTTCTCTATGGTCCTTCAACAGTTTTGCATATACAAAATTTTCTGCTATTTTG
) !		GATGGAAAGCCATTITTATTTTCTCTAAATTTTAAAATAGAAGACTTTAATGGAAAACATTTAGTAC
WI-6819a	175 GT		CGTCAGTAGTACACATITICTCTATGGTCCTTCAACAGTTTT[G/T]CATATACAAAATTTTCTGCTATT TTGCTTTAGCAAACAGCAATAACTTTTGTGTTTCCTATATGACACCTAATAT
			GCAAAAAGCTTTATTGGCTCCAACAAATTATCCCTTTTAAAACTCCTCTTCTTCTTC
WI-6826b	154 A G		ATGCAAAACCTTGTACAT[A/G]GAGCTTAAATAATATCAAAATGCAAATATAGATTGGGTGCACTGT TAAGCTGAATTGCAAATTATGGCAACACACACTGGACTGGGGTATACGTTG
			GCAAAAAGCTTTATTGGCTCCAACAAATTATCCCTTTTAAAACTCCTCTTCTTCTTC
WI-6826	154 A G	- !	TAAGCTGAATTGCAAATTATGGCAACACACTGGACTGGGGGTATACGTTG
	1		AGTGCAAACTATTTTGAACAAAAGTAAACTATGAGTCACAGCATTCAGCAAGACATCAGACACGGA AGAGTGAACAATATTCACTAAGTAAAATACAGCAGATGAGATGTCTCTCACATGTA[T/C]ATTTAAT TATTCATGCTTTTTCAATAGTCTCTTAGTCAACTTTCAGTGTAATTTCCACAAATATATAGCAGCTCA
WI-6857a	122 T C		AACACAAATGCAGGAGCACAATGGCAAAGTTTGGCAACTGTTTTGGGCTAATT
			TTATAGAATACTTATGGGGCATACGNGTAAATGAACTGTCAACCTTAAAATCTAAAACAACAGCTTG
WI-6865	153 G A	<u>:</u>	ATTITIGCAGGCAAACTICIG/AJTAGAGCCATTCTGTGCAGAAGGAAGGGAAGGGAAGGGA
			ATTGAAAACTGGTTAGCAACAGATAAATTACAATAGAGCCTGGATATAAAAATGAGAAGAAGGAATGC
WII-GOOD	- C		GGAAAAAATTTCCTTTTTTTGCCAACAGGATTATTTCGAATAATATACTTGCCAGTGCCAATCAG
VVI-0303		1	

			CACTCAAAACCTTTATTCATTGATTTACAAACTGTACAATATTTACAAAGTTTAGGCATTAATCCCA TATTGACATGAATGCTGTGGAATGTGGAATGCTGTAAAATAAAT
WI-6910b	163 GT	ţ	GGCTCTTTACACTTAAGCCATTACCAATA[G/T]TGAGATGTAATGGAGAATTTAATGTGGTAGAAAA GTCAGAGTGGCTGACAGTCCCAGGACCTTCCATGTGAATGACTCTTCCTTGGC
			GCTTGTTTTTTTGTTTGTTTTTAAGTGACACCTTGGCCTTGTGGGCATTCTTCACCCTTATCTTACCC AAAAGTGCCTTTGGGCCCAGCACTGACTTTAAAACCCAGAAATGTGGTTTTAAACAATGTGGT
WI-6915	44 A A	_!	CGTGGTGAATTCAGGTGATTTTNATTTTCTATTTGGTAGTATTTTTCAGATTTCCCACAAAGAACATG
	1		CAATCAAAAAAGTTCCAAGTTTCAAAAGCTGGGATGAAAAGCCAGGTCTTCTGACTTGCACTCTGTCACACTGGATTTTNCCTCTGATCCAGCTGCAGCTCCCATAAGAAGTTCACTCTTAATTTCATGTCCCATG
WI-6928b	175 T C	**************************************	CTTTGTCTTGGTCCCTGTGAGGAAAGGGGTCAGCTAAAGG[T/C]AACTGTTCTATAAGGATGGGTAGGGTAGTAAACGTGACCTTAGAAGTTA
			CAATCAAAAAGTTCCAAGTTTCAAAGCTGGGATGAAAAGCCAGGTCTTCTGACTTGCACTCTGTCAC
WI-6928	175 T C	<u> </u>	CTTTGTCTTGGTCCCTGTGAGGGAAAGGGTCAGCTAAAGGTI/CJAACTGTTCTATAAGGATGGGTAGG
			TTTTTATGAAACATTTCAGATTCCCTCATATCACAGCACATCAATAAGCAGTATGTACATAGACTGA CTTTTATAGTAC[G/A]NGTCATGTCCCAAATTCCCAATCCTAGGTAAGATATCAAGTTACAAANTAC AAGTGCCGNTAATTAAACTATAAGGTAGTAATTAANCAAAAATGNGTTTTTNGCAATTATGTGAAAT
WI-6955b	79 GA	i	AAGGCTTTAACCAAAGC
			TTTTTATGAAACATTTCAGATTCCCTCATATCACAGCACATCAATAAGCAGTATGTACATAGACTGA CTTTTATAGTAC[G/A]NGTCATGTCCCAAATTCCCAATCCTAGGTAAGATATCAAGTTACAAANTAC AAGTGCCGNTAATTAAACTATAGGTAGTATTAANCAAAATGNGTTTTTNGCAATTATGTGAAAT
WI-6955	79 GA		AAGGCTTTAACCAAAGC
			AAACTAAAAACCCTTATTGTCTCCAAGTGTGTGGCAAAATAGAAAA1[C/G]111CAA11ACA11ACA1AGAAATCGGGTGGGTGAATAACGGGGTATAGTTATTCCACTTAAGAAGCATTCCAGTTCAAATAATCACAAAATCAGATTTGAAAACCACTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGCTTGAAGAACTGGATTTGAAAACCACTTTAGG
WI-6957	47 C G	1	CTAAAATAAATGTATATGAATAATGCATAGACTGTGTATCTAGAAAATCATGC
			ACTICTAGEGCCTCTGTTACCACCACCTCTAATGCCTCTGGTCGCCGCACTTCTGATGTCCGTAGGCCT
			AAA C. G.C.C. G.G.C.C. G.C.C. G.G.C. G.G.C.C. G.G.C.C.C.C
WI-6996c	242 GT	:	CTCTCCTGATGGTGGCCCTCTGTCTCTTCTCTCGG/JGTCGGATC

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			ACTICIAGIGCCICIGITACCACCACCICIAATGCCICIGGICGCCGCACTICIGATGTCCGTAGGCCT
			CAGGAGAGAGAGAGAGACTGCTGGACCCAAGGCTCAGTCCCTCTCAGGACCCCCTGTCCTGACT
WI-6996b 2	242 GT	1	CTCTCCTGATGGGGCCCTCTGTGCTCTTCTCTTCC[G/I]GTCGGATC
-			ACTICTAGEGCETCTGTTACCACCACCTCTAATGCCTCTGGTCGCCGCACTTCTGATGTCCGTAGGCCT
			TAAATCTGCCTGGCGTCCCCTCCCTCTGTCTTCAGCACCCCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
	F	i	CAGGAGAGAGAGGGCTGCTGGACCCAAGGCTCAGTCCTCTGCGTTCTCAGGACCCCCTGTGCTCTCCTTCCGGTTCCTTCTTCCGGTTCCTTCTT
0660-144	037		TGGGGAGGACAGGGAGATGCTGCAGTTCCAAAAGAGAAGGTTTCTTCCAGAGTCATCTACCTGAGTC
			CTGAAGCTCCCTGTCCTGAAAGCCACAGACAATAGGTCCCAAAT[G/A]CCCGACTGCACTTCTGTG
			CTTCAGCTCTTGTTGACATCAAGGCTCTTCCGTTCCACATCCACAGCCAATCCAATTAATCAAACC
WI-7021b 112 G	112 GA		ACTGTTATTAACAGATAATAGCAACTTGGGAAATGCTTATGTTACAGGTTA
			TGGGGAGGACAGGGAGATGCTGCAGTTCCAAAAGAGAGAG
			CTGAAGCTCCCTGTCCTGAAAGCCACAGACAATATGGTCCC(A/G)AATGCCCGACTGCACCTTCTGTG
			CTTCAGCTCTTCTTGACATCAAGGCTCTTCCGTTCCACATCCACAGCCAATCCAATTAATCAAACC
WI-7021	108 A G	1	ACTGTTATTAACAGATAATAGCAACTTGGGAAATGCTTATGTTACAGGTTA
:			GGCAGTAGGACCACCAGTGTGGGGTTCTGCTGGGACCTTGGAGAGCCTGCATCCCAGGATGCGGGTGG
			CCCTGCAGCCTCCACCTCACCTCCATGACAGCGCTAAACGTTGGTGA[C/T]GGTTGGGAGCCTCI
			GGGGCTGTTGAAGTCACCTTGTGTGTTTCCAAGTTTCCAAACAACAGAAAGTCATTCCTTCTTTTTAAA
WI-7056c	118 CT	-	ATGGTGCTTAAGTTCCAGCAGATGCCACATAAGGGGTTTGCCATTTGATA
+-			GGCAGTAGGACCACCAGTGTGGGGGTTCTGCTGGGACCTTGGAGAGCCTGCATCCCAGGATGCGGGTGG
			CCCTGCAGCCTCCACCTCCACGTGACAGGCGCTAAACGTTGGTGGTTGGGTTGGAGCTCT
			GGGCCTGTTGAAGTCACCTTGTGTGTTCCAAGTTTCCAAACAACAACAGGAAAGTCATTCCTTTTTTCCAAACAACAACAACAAGTCATTCCTTTTTTTT
WI-7056b	118 CT	1	ATGGTGCTTAAGTTCCAGCAGATGCCACATAAGGGGTTTGCCATTTGATA
			AATTCGCTGAAAAAGGAACTACCTATCCTTACATTTCACCTACTAATGTCTCTTCTAAACATCTTAGAG
			GTCCATGGAGAAGGCATATGGAGAACATGTTTTATACTGCTCTATAAATAG1A11CCAA1CAC1G1G
			CTTAATTTAAATAGCATT[A/C]TCTTATCAGCCTTTTATGTTTTTTATGAGTAAAIAIIA
WI-7091b	153 A C	•	ACATATTATTICATTGGTCTTCTTTTTATCTGGTTCTATATGAATGCTAI
			AATTCGCTGAAAAAGGAACTACCTATCCTTACATTTCACCTACTAATGTCTCTTCTAACATCTTAGAG
			GTCCATGGAGAAGGCATATGGAGAACATGTTTATACTGCTCTATAAAIAGIAIICCAAICACIGIG
			CTTAATTTAAATAGCATT[ACJTCTTATCATTTATCAGCCIIIIAIGIAIIIICCAAGIAAAAIAIIA
WI-7091	153 A C		ACATATTATTCATTGGTCTTCTTTTTATCTGGTTCTATGAATGCTAT

				TGTGAAGCCACATTTTCCAACATGAGCCTCATGAAGCCAACTAAGTGTTATTGAACTG[1/C]AATTCAAAACAACAAATGTG
				TCTCAATAACTCAGTGTAGCACTTTTAAAGTCTGAAGGACATCTTTTTATAACAAGAAAGGAAAAGGGAAAAGGGGATTGTTTAATTTTTTTT
WI-7136	58 T		•	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
				GGGACGCCTGTTGTTTTGGCTCAATTTGGGTTTGTTGGTCACATGGAGCTCTTCCATTTCGTTTAGCTG
				AATAATGAGTTGTTCCTAGAGGAGACAGCCTGTCTCTCCTTGTTGCCCCCAAAGCCCATGCCCTGCCG
				TGGTGGCAGCTGGGGGTGGGAGGGGGTCCCCAACATGGATGTTGCCCCTCCTCCGCATGC
WI-7146c	210 A		•	AACGC[A/G]GTTCATGTACAAGGCCCCTCTGCAACTGGAGAGAAATTA
				GEGACECCTETTGETTTTGGCTCAATTTGGGTTTGTTGGTCACATGGAGCTCTTCCATTTCGTTTAGCTG
				AATAATGAGTTGTTCCTAGAGGAGACAGCCTGTCTCTCCTTGTTGCCCCCAAAGCCCATGCCCTGCCG
				TGGTGGCAGCTGGGGCTGTGGATGGGAGGGGTCCCCAACATGGATGTGTTGCCCCTCCTCCGCATGCC
WI-7146b	210 A	 g		AACGC[A/G]GTTCATGTACAAGGCCCCTCTGCAACTGGAGAGAAAATTA
				GGGACGCCTGTTGTTTGGCTCAATTTGGGTTTGTTGGTCACATGGAGCTCTTCCATTCGTTTAGCTG
				AATAATGAGTTGTTCCTAGAGGAGAGACGCCTGTCTCTCCTTGTTGCCCCCAAAGCCCATGCCCTGCCG
				Tegtegcagctegegctgtggatggaggggtccccaacatggatgtgttgcccctcctccgcat[g/A]
WI-7146	202 G/	A		ICCAACGCAGTTCATGTACAAGGCCCCTCTGCAACTGGAGAGAAATTA
				ATATTACAACTTGCTTTTTAGCTGATCTTCCATCCTCAAATGACTCTTTTTTTT
				TATAAAATGGCAACTGATAGTCAATTTTGATTTTTATTCAGGAACTATCTGAAATCTGCTCAGAGCCI
				ATGTGCATAGATGAAACNNNNNNNNNNNNNNNNNNNNNNN
WI-7153	161 A	<u> </u>	•	AGTACCTATCTTTAAAGTATAGTACATTTTACATATGTAAATGGTATGTTT
				TAGAATAGATGCGGTCATATTCTTCTTTGGCTTCTGGTTCTTCCAGCCCTCATGGTTGGCATCACATAT
				GCCTGCATGCCATTAACACCAGCTGGCCCTACCCCTATAATGATCCTGTGTCCTAAATTAATAATACAC
				CAGTGGTTCCTCCTCCTG[T/G]TAAAGACTAATGCTCAGATGCTGTTTACGGATATTTATATTCTAG
WI-7155	156 T G	 9	•	TCTCACTCTTGTCCCACCCTTCTTCTTCCCCATTCCCAACTCCAG
	!			AGCTCCACCAGATGCAGATTTGTGTTTTGTTTTCATTATCACTGTCACACAGCTTATAACATGTAT
				GCTTTTCAGAATACAGTTGTCTAGCCAAGCCATCAAGTGTCTGAAATTCAATATTGGTTTATGCAAAT
				ACAGCAAACTTTTATTTAAGTAGAT[A/G]GGAGAATATGTTTAAAATATTAGGAATCCTAGACCATA
WI-7169b	161 A	5	•	TTTTCAAGTCATCTTAGCAGCTAGGATTCTCAAATGGAAGTGTTATATATA
	 			CTCCTAGACTAGTGCTTTACCTTTATTAATGAACTGTGACAGGAAGCCCAAGGCAGTGTTCCTCACCA
				ATAACTTCAGAGAAGTCAGTTGGAGAAAATGAAGAAAAAGGCTGGCT
				AGTTACTGGTTTCAGTTGACAAAATATAATGGTTTACTGCTGTCATTGTCCATGCCTA[C/T]AGAT
WI-7175b 194 CT	194)T	•	AATTTATTTTGTATTTTGAATAAAAACATTTGTACATTCCTGATACTGGG

	\mid			V C C C C C C C C C C C C C C C C C C C
				CTCCTAGACTAGTGCTTTACCTTTATTAATGAACTGTGACAGGAAGCCCAAGGCAGGC
				AGTTACTGGTTTCAGTTGACAAAATATATAATGGTTTACTGCTGTCATTGTCCATGCCTA[C/T]AGAT
WI-7175	194 C			AATTTATTTTGTATTTTTGAATAAAAACATTTGTACATTCCTGATACTGGG
				TGTATCAGGTCAGGGACTTGGACAGGAGTCAGTGTCTGGCTTTTTCCTCTGAGCCCAGCTGGAG
				AGGGGIOLOGO GGCTGGGCTGGGCTGGGGGGGGGGGGGGGGGGGGGG
WI-7178b	273 G			CCTTTTCAGCTGAGCCCTGGGGACTGTTCCAAAGCCAGTGAAATGTGAAGGAA
				TGTATCAGGTCAGGGACTTGGACAGGAGTCAGTGTCTGGCTTTTTCCTCTGAGCCCCAGCTGCCTGGAG
				AGGGTCTCGCTGTCACTGGCTGGCTCCTAGGGGAACAGACCAGTGACCAGTACCCAGAAAAAAAA
WI-7178	273	GA		CCTTTTCAGCTGAGCCCTGGGGACTGTTCCAAAGCCAGTGAAATGTGAAGGAA
				GCATATTTGGCAGCTTATTGCTTCGAAACCCAGCTGGTCACCAAAAGCTTGATATACAGAGAAGAAG
				AAGGCTCAAGAATTTATTCACCAGTTCCTCTGCAACCCACTCTGAGCCT[A/C]TCTCTCCTCTATTT
				TACTTGAGGCTGCCAATTACCAGCCCCACGTTTCAGCTCAAGAGATGCCTTAAGATAATTATGTGAGG
WI-7182b	116 A		:	CCACTTGGTAGCAAGAATGGCAGCTATTTCCTGAAGCCTAGTACCCCAATT
				GCATATTTGGCAGCTTATTGCTTCGAAACCCAGCTGGTCACCAAAAGCTTGATATACAGAAGAAG
				AAGGCTCAAGAATTTATTCACCAGTTCCTCTGCAACCCA(C/A)TCTGAGCCTATCTCTCTCTCTATTT
				TACTTGAGGCTGCCAATTACCAGGCCCCACGTTTCAGCTCAAGAGAGATGCCTTAAGATAATTATGAGGCTGAAGATGAAGATAATTATGAAGAGAGATGCCTTGAGGAGAGATGAAGATAAGAATAAGATAATA
WI-7182	106 C	; A		CCACTTGGTAGCAAGAATGGCAGCTATTTCCTGAAGCCTAGTACCCCAATT
				ATAATTGCTTGTTTTCTAGCCTGGCAAGATATTTCATAAAAGAGGGATAACAATGCTGATTACTAC
				CTTTTAAAATATTTTAGATAAATGCACAGCACCACAGCACCACATTAAGCATTAGTGATGGGTAGC
				TGATGTCAGCTTCATGTGGATTTTAAGCACTCTAGAAACAATGAAGCTTCTTGGCATATTTAAGGAG
WI-7191b	273 T	r A		CTCCCAAAATGTGTTACCTATTAAATTGTAACTCAGCAAGTAGAAGACCATIT
				CCCAGTGGTGAACAGAACCTCCCAAATTTGAGTTGCACCCTTCCCTGTGGCCTTATGAGCTCAGCCTC
				GCTTTGAGGTACCCACCGTCCTGTCAGCTCCTTGACCTATGAGC[T/C]GGGGCCTGACTAGGAAAAGT
				TGGGAGTTAAGGAGGAAATTAGCATTCCTTAATGTTTTGTTTTGGTGCTCTGAATTTCTTCTTTATTAT
WI-7199c	112	O	•	AGTCCTATAGTTTTACTCCTCAGGTTCCTCATCATCATCTTGTCTAA
			·	CCCAGTGGTGAACAGAACCTCCCAAATTTGAGTTGCACCCTTCCCTGTGGCCTTATGAGCTCAGCCTC
				GCTTTGAGGTACCCACCGTCCTGTCAGCTCCTTGACCTATGAGC[T/C]GGGGCCTGACTAGGAAAAGT
				TGGGAGTTAAGGAAGTTAGCATTCCTTAATGTTTTGTTT
WI-7199b	112 T C	rlcl		AGTCCTATAGTTTTACTCCTCAGTTCCTCATCATCATCTTGTCTAA

			TGACACTAACACTCTAATTCAAGCGAATGTTGGAACACCATGACCTCCTCTGGGGGGGG
			AAGGACAAAA IGI AGAAAGA IGI GAGA IAGI IAGI
WI-7216c 237 T	:	;	CTGTCAATTCTCCTGAGGCTAAACACAGTTTGTTTTTTTT
-			TGACACTAACACTCTAATTCAAGCGAATGTTGGAACACCATGACCTCCTCTGTGTGTG
			AAGGACAAAATGTAGAAAGATGTGAGATAACTTACTCAAGATTCCCCTCCAGAAAAATACGTATGT
			TTAAAAACCCTTCCTGCTATACATAGGAAAAGACACATCCACCTAAAATTGACTGTACTGTTTAA
WI-7216b 237 T			CTGTCAATTCTCCTGAGGCTAAACACAGGTTTGTTTTTTTT
			AGGATGATGCTCCAAAGGGGACCTTGAACCTATTCACCATTATTTGTCTCTTTAAGCTGGCAAACCCA
			TCATTAAATAGCACATAAAATAGCAATCATATGGGATAAGTAGTACAGCTTCAGTAATCAATGGGCA
			GTGGCACTAGAA(AT)AATCTTGAGCACAGTGAATGACCTATCCTGCAAACATCTAATGGATCTCTA
WI-7220b 147 A	T	•	AAGGGTAACAAACCCTATAAATTCTGGCTTACTGCACATATTTAGTGTGTTT
			AGGATGATGCTCCAAAGGGGACCTTGAACCTATTCACCATTATTTGTCTCTTTAAGCTGGCAAACCCA
			TCATTAAATAGCACATAAAATAGCAATCATATGGGATAAGTAGTACAGCTTCAGTAATCAATGGGCA
			GTGGC[A/T]CTAGAAAAATCTTGAGCACAGTGAATGACCTATCCTGCAAACATCTAATGGATCTCTA
WI-7220 140 A		9 9	AAGGGTAACAAACCCTATAAATTCTGGCTTACTGCACATATTTAGTGTGTTT
			GATCGAATTITTCAGATGATTCGGAAATTITCATTCAGGTATTTGTAATAGTGACATATATATATA
			TACATATCACCTCCTATTCTCTTAATTTTTGTTAAAATGTTAACTGGCAGTAAGTCTTTTTTGATCAT
			CCCTTTTCCATATAGGAAACATAATTTTGAAGTGGCCAGATGAGTTTATCATGTCAGTGAAAAAAAA
WI-7226 232 C		-	TTACCCACAAATGCCACCAGTAACTTAACGATTCTTCACTTCTTGGGG111
			ATAGCTTCCAGATTACAAAGGCCAAGGGTAATAGAAATGCATACCAGTAATTGGCTCCAATTCATAA
		-	TATGTTCACCAGGAGATTACAATTTTTGCTCTTGTGTCTTTGTAATCTATTTAG11GA111AA11A
	-		CTTTCTGAATAACGGAAGGGATCAGAAGATATCTTTGTGCCTAGATTGCAAAATGTCCAATICCACA
WI-7228b 254 G	A	*	CATATTGTTTTAAAATAAGAATGTTATCCAACTATTAAGATATCTCAATGT[
			ATAGCTTCCAGATTACAAAGGCCAAGGGTAATAGAAATGCATACCAGTAATTGGCTCCAATTCATAA
			TATGTTCACCAGGAGATTACAATTTTTTGCTCTTTGTCTTTGTAATCTATTTAGTTGATTTTAATTA
			CTTTCTGAATAACGGAAGGGATCAGAA[G/A]ATATCTTTTGTGCCTAGATTGCAAAATCTCCAATCC
WI-7228a 163 G	A		ACACATATTGTTTTAAAATAAGAATGTTATCCAACTATTAAGATATCTCAA
			CGATCGTACTGCCAGTAGCATTGTCTGTCTGTCCGGTCTTGTTTGT
			GATGTGAACTTTATTCCTTGTCACTAATTATATTTAAAATTATTTCTAGGAAGTCAAAAAAATATAA
			TAAAGGGTTGAGCCCTCTACTTCTTGTTGCCACCTTTTTGTGGCAATATTAAAGTGAACTGCTAATA
WI-7233c 213 C T		1	GTGTAAGTĄC/JGTGCACAAAACCACTGCCAGATAACCAGAGGGGGCCTG

		CGATCGTACTGCCAGTAGCATTGTCTGTCTGTCTGGTTTGTACATTCCATTTTCAATTGTTACA GATGTGAAACTTTATATTCTAGGAAGTCAAAAAAAAAA
WI-72339h 213 C T		TAAAGGGTTGAGCCCTCTACTTTCTTCTTGCCACCTTTTTGTGGCAATATTAAAGTGAACTGCTAATA
		CGATCGTACTGCCAGTAGCATTGTCTGTCTGGTCTTGTTTGT
WI-7233 211 T C		TAAAGGGTTGAGCCCTCTACTTTCTTCTTGCCACCTTTTTGTGGCAATATTAAAGTGAACTGCTAATA GTGTAAGTT/CJACGTGCAAAAACCACTGCCAGATAACCAGAGGGGGCCTG
:	:	GCGTCTACAGACAGCTCACCATTTTTGTCCTGTATCTGTAAACACTTTTTGTTCTTAGTTTTTCTTG
		TAAAATTGATGTTCTAAAAATGGTTAAAGGGGTGCTTTTCTCATTTCAAAGTTGCTACCAGGTATA
WI-7238 128 T C		GCAGTAATTAGAACAAAGAAACATTCAGTAGAACATTTTATTGCCTA
		CCACCAGGATCCCAGCOCAAGCGGCCCTCCCGCCCTTCCCACTCGCAGACGCCGGGGGACAGACGCTCGCAGACGCGGGGGGACAGAGAGAG
		GACACTCCTAGAGAACGCAGCCCTAGAGCCTGCAGCGTTTCTAGCAAGTGAGAGATGGGAG
WI-7252f 520 T C	•	CTCCTCTCGTGGAGGATGCAGGTGGAACTCAGTCATTAGACTCCTCCTCCA
!		OCACCAGGATCCCAGGCCGAAGCGGCCCTCCCGCCCTTCCCACTCGCAGACACACGGGGGACAGAG
		goct gooc geg good accome gooc transfer to garden good good good good good good good goo
		GACACTCCTAGAGAACGCAGCCCTAGAGCCTGCCTGGAGCGTTTCTAGCAAGTGAGAGAGA
WI-7252e 552 T C	•••	CTCCTCTCTGGAGGATGCAGGGAACTCAGTCATTAGACTCCTCCTCCA
├ -		CCACCAGGATCOCAGCCGAAGCGGCCCTTCCCCACTCGCAGCGCAG
		GOCTGOODGGGCGCGCCAGCOCCGGGCCTCGGAGGCTGCCCCGGGCCTGCTCTCTGTCTCTGTTCTCGTTCTCTGTTCTCTGTTCTCTGTTCTCTTCT
	···	GACACTCCTAGAGAACGCAGCCCTAGAGCCTGCAGAGCGTTTCTAGCAAGTGAGAGAGA
WI-7252d 540 T C	* * *	CTCCTCTCTGGAGGATGCAGGTGGAACTCAGTTAGACTCCTCCTCCA
		CCACCAGGATCOCAGCCCAAGCGGCCCTCCCGCCCTTCCCACTCGCAGCACGCGGGGACAGAG
		GOCTGOOOGGOCGCCAGOOOGGOCCTGGGCTOGGAGGCTGOOOOGGOOOGTGGTCTCTGGTOOG
		GACACTOCTAGAGAACGCAGCCCTAGAGCCTGCAGAGCGTTTCTAGCAAGTGAGAGAGA
WI-7252c 552 T C		CTCCTCTCGGAGGATGCAGGTGGAACTCAGTCATTAGACTCCTCCTCCA
		CCACCAGGATCOCAGCOCAAGGGGCCCCTCOCGCCCTTCCCACTCGCAGACGCCGGGGGACAGAG
		GCCTGCCCGGGCGCGCCAGCCCCGGGCCTCGGAGGCTGCCCCCCGGGCCTGGTCTCTGGTCTCGGTCGG
•••		GACACTCCTAGAGAACGCCAGCCCTAGAGCCTGCCTGGAGCGTTTCTAGCAAGTGAGAGAGA
WI-7252b 540 T C	-	CTCCTCTCGGGGGGGGGGGGGGGGGCGCCGCTCCTCCTCC

WI-7252a 520 T			CCACCAGGATCOCAGCCCAAGCGGCCCTCCCGCCCTTCCCACTGGCAGCAGCAGCGGGGGACAGAGGCCCCGGGGGACAGAGGCTCCCCCGGGGGCCCGGGGGGACAGAGGCCTGCAGAGGCTGGAGCTGGAGCCTGGAGGCTGGAGGCTTCTAGCAAGTGAAGAACGCCTAGAGAGCCTGCCT
			AACTTGGTTATGTCAGTTCCTGTGTGGACAGTAAGGAAAAAAGGCATGCTATGTGTTACGTGTTTTCCAGTATGTTTATTTGCCACAAAAAGTAAATGCATTTTCACCCATTCTGTGGTTCATTGTAGTT
WI-7265m 252 T			TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTTTATATTATGTAAAATAACGATCTCTT AAAAATACCACAGTTTGTTTTTTTTTT
			AACTTGGTTATGTCAGTTCCTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTTACGTGTTTTTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTCACCCATTCTGTGGTTCATTGTAGTT
WI-7265I 231 T	A		TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTTTATATTATGTAAAATATAACGATCTCTT AAAAATACCACAGTTTGTATTTTTTCTT[T/A]AAGGAGTAAAGATTTGCCT
			AACTTGGTTATGTCAGTTCCTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTTACGTGTTTTCACCAGTATGTTTGCCACCAAAAAGTAAATGCATTTTCACCCATTCTGT/GJGGTTCATTGTA
WI-7265k 121 T	<u>.</u>		GTTTAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTTTATTATTATGTAAAAIAIAACGAICI
			AACTTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTTTACGTGTTTTTCCAGTATGTTTTCCAGTATGTTTTGCCACAAAAAGTAAATGCATTTTCACCATTCTGTGGTTCATTGTAGGTTTTAAGGAAACCAAAAAATATAAGAAAAAAAA
WI-7265j 174 T	r A		CTTAAAAATACCACAGTITGTATTITTCTTTAAGGAGTAAAGATTTGCCT
			AACTTGGITATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTTTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTCACCCATTCTGTGGTTCATTGTAGGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTTTATATTATGTAAAAATATAACGATCTCTT
/77 ICQ7/-IM			AACTTGGTTATGTCAGTTCCTGTGTAGACAGTAAGGAAAAAAAA
WI.7265h		;	GTTTAAGGAAACCAAGCATATATTTTTTTAAGGATAAAAATACCATCT CTTAAAAATACCACAGTTTGTTTTTTTTTT
ļ			AACTTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTTTACGTTTCAGTTTCACCATTCTGTGGTTCATTGTAGTTGTAGTT
WI-7265g 170 T G	- 5	ì	TAAGGAAACCAAGCATATAGATGCATTAGTGATTĮT/GJTGTTTATATTATGTAAAATATAACGATCT CTTAAAAATACCACAGTTTGTATTTTTTTAAGGAGTAAAGATTTGCCT

				AACTTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAAA
		_		TTTCCAGTATGTTTATTTGCCACCAAAAGTAAATGCATTTTCACCCATTCTGTGGTTTGTTT
				TAAGGAAACCAAGCATATAGATGCATTAGTGTTTTGTTT
WI-7265f	231 T A		•••	AAAAATACCACAGTTTGTTTTTTTTTTTTTTTTAAAGATTTGCCT
				AACTTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAAA
				TITCCAGTATGITTATTTGCCACCAAAAGTAAATGCATTTTCACCCATTCTGTGGTTCATTGTAGTT
				TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTTTATATTATGTAAAATATAACGAICICII
WI-7265e	227 TC		•	AAAAATACCACAGTTTGTATTTTTTTTTAAGGAGTAAAGATTTGCCT
				AACTTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAAGGCATGCTATGTGTTACGTGTTT
				TTTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTCACCCATTCTGTGGTTCATTGTAGTT
				TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGT[T/A]TATATATGTAAAATATAACGATCT
WI-7265d	174 T A	1	-	CTTAAAAATACCACAGTTTGTATTTTTCTTTAAGGAGTAAAGATTTGCCT
				AACTTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAAA
				TTTCCAGTATGTTTATTTGCCACCAAAAGTAAATGCATTTTCACCCATTCTGTGGTTCATTGTAGTT
				TAAGGAAACCAAGCATATAGATGCATTAGTGATT[T/GJTGTTTATATTATGTAAAATATAACGATCT
WI-7265c	170TG			CTTAAAAATACCACAGTTTGTATTTTTTTTAAGGAGTAAAGATTTGCCT
				AACTTGGTTATGTCAGTTCCTGTGTAGACAGTAAGGAAAAAAAA
				TTTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTCACCCATTCTG[1/G]GG11CA11G1A
				GTTTAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTTTATTATTGTAAAATATAACGATCT
WI-7265b	121 T G	-	•••	CTTAAAAATACCACAGTTTGTATTTTTCTTTAAGGAGTAAAGATTTGCCT
				AACTTGGTTATGTCAGTTCCTGTGTAGACAGTAAGGAAAAAAAGGCATGCTATGTTACGTGTTT
				TTTCCAGTATGT[T/A]TATTTGCCACCAAAAGTAAATGCATTTTCACCCATTCTGTGG11CA11G1A
				GTTTAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTTTATTATGTAAAATATAACGATCI
WI-7265a	80 T A	-	:	CTTAAAAATACCACAGTTTGTATTTTTTTTTAAGGAGTAAAGATTTGCCT
				GATCACOCCAGCCACAAGCCCTTCGAGGGCCCTATACCATGGCCCACCTTGGAGCAGAGAGCCAAGC
				ATCTTCCCTGGGAAGTCTTTCTGGCCAAGTCTGGCCAGCCTGGCCGCAGGTCTCCCATGAAGGCCA
				COCCATGGTCTGATGGGCATGAAGCATCTCAGACTCCTTGGCAAAAAACGGAGTCCGCAGGCCGCAG
WI-7281b	183 C		:	GTGTTGTGAAGACCACTCGTTCTGTGGGGTCCTGCAAGAGGCCTCCTC
				GATCACCCCAGCCACAAGCCCTTCGAGGGCCCTATACCATGGCCCACCTTGGAGCAGAGGCCAAGC
				ATCTTCCCTGGGAAGTCTTTCTGGCCAAGTCTGGCCAGCCTGCCGGGTCTCCCCATGAAGGCCA
				COCCATGGTCTGATGGCCATGAAGCATCTCAGACTC[C/A]TTGGCAAAAAACGGAGTCCGCAGGCCG
WI-7281	171 CA		_;	CAGGTGTTGTGAAGACCACTCGTTCTGTGGTTGGGGTCCTGCAAGAAGGCCCT

			TGTCACCTGGCACATTCATTTTCTCAGTTGAAGAGAAAAATTTGAAAATGTCCTTATGCTTTTAGA
			GELECAROLITARE I ALA MENTAGO DE LA CONTROLITA DE LA CAROLITA DE LA CAROLITA DE LA CAROLITA DE LA CAROLITA DE L AGECCOTTICATARA A ACAGA ACTIGACITA GO CARGA GA A TECARA TOTA DE LA CAROLITA DE LA CAROLITA DE LA CAROLITA DE L
WI-7282b 159	O O 6		GTTGGTTATCTGAATAGTGTCACCAATTCCACCAAGACAGTGCTGAGATTGG
			CTTGATTACTTCCACTGAGGTGGGAGCATCTCCAGTGCTCCCCAATTATATCTCCCCCACTCCACTAC
			TCTCTTCCTCCACTTCATTTTCC[T/C]TTGTCCTTTCTCTAATTCAGTGTTTTGGAGGCCTGACTTG
			GGGACAACGTATTATTGATATTGTTGTTTTCCTTCTTCCCAATAGAAGAATAAGTCATGGAGCC
WI-7292 9	92 T C	;	TGAAGGGTGCCTAGTTGACTTACTGACAAAAGGCTCTAGTTGGGCTGA
			AACTATGGCAGTGGTCCTGGTTATAGTAGTAGAGGCGGGTATGGTGGTGGTGGTGGTGGACCAGGATATGGAA
			ACCAAGGTGGTGGATATGGTGGCGGTGTTGGAGGATATGATGGTTACAATGAAGGAGGAAATTTTG[
		_	<i>A</i> GJCGGTAGTAACTATGGTGGTGGTGGGAACTATAATGATTTTGGAAATTACAGTGGACAACAGCA
WI-7301f 13	133 A G	i	ATCAAATTATGGACACATGAAAGGGGGGCAGTTTTGGTGGAAGAAGCTCGGGCAG
			AACTATGGCAGTGGTCCTGGTTATAGTAGTAGAGGCGGGTATGGTGGTGGTGGTGGTGGACCAGGATATGGAA
			ACCAAGGTGGTGGATATGGTGGCGGTG[T/G]TGGAGGATATGATGGTTACAATGAAGGAGGAATTT
			TGACGGTAGTAACTATGGTGGTGGTGGGAACTATAATGATTTTGGAAATTACAGTGGACAACAGCAA
WI-7301e 9	94 T G		TCAAATTATGGACACATGAAAGGGGGGCAGTTTTGGTGGAAGAAGAAGCTCGGGCAG
			AACTATGGCAGTGGTCCTGGTTATAGTAGTAGAGGCGGGTATGGTGGTGGTGGTGGTGGACCAGGATATGGAA
			ACCAAGGTGGTGGATATGGTGGCGGTGTTGGAGGATATGATGGTTACAATGAAGGAGGAAATTTTGA
			CGGT[A/G]GTAACTATGGTGGTGGGAACTATAATGATITTGGAAATTACAGTGGACAACAGCAA
WI-7301d 13	138 A G		TCAAATTATGGACACATGAAAGGGGGGCAGTTTTGGTGGAAGAAGAAGCTCGGGCAG
			AACTATGGCAGTGGTCCTGGTTATAGTAGTAGAGGCGGGTATGGTGGTGGTGGTGGACCAGGATATGGAA
			ACCAAGGTGGTGGATATGGTGGCGGTGTTGGAGGATATGATGGTTACAATGAAGGAGGAAATTTTGA
			CGGTAGTAACTATGGTGGTGGTGGAACTATAATGATT1TGGAAATTACAGTGGACAACAGCAATCA
WI-7301c 21	211 AC		AATTATGGACJACJCATGAAAGGGGGGCAGTTTGGTGGAAGAAGAAGCTCGGGCAG
			AACTATGGCAGTGGTCCTGGTTATAGTAGTAGAGGCGGGTATGGTGGTGGTGGTGGACCAGGATATGGAA
			ACCAAGGTGGTGGATATGGTGGCGGTGTTGGAGGATATGATGGTTACAATGAAGGAGGAAATTTTGA
	-		CGGTAGTAACTATGGTGGTGGTGGAACTATAATGATTTTGGAAATTAJCTJAGTGGACAACAGCAA
WI-7301b 182	2C	:	CAAA II A I GGACACA GAAAGGGGGGCCAG I I I GG I GG
			AACTATGGCAGTGGTCCTGGTTATAGTAGTAGAGGCGGGTATGGTGGTGGTGGTGGACCAGGATATGGAA
			ACCAAGGTGGTGGATATGGTG[G/T]CGGTGTTGGAGGATATGATGGTTACAATGAAGGAGGAAATTT
			TGACGGTAGTAACTATGGTGGTGGTGGAACTATAATGATTTTGGAAATTACAGTGGACAACAGCAA
WI-7301 8	88 GT	<u>:</u>	TCAAATTATGGACACATGAAAGGGGGCAGTTTTGGTGGAAGAAGCTCGGGCAG

Minimary Minimary				
205 A C A A B A G A A A B A G A A A B A G A A A B A G A A A B A G A A A B A G A A A B A G A A A B A G				AACTATGGCAGTGGTCCTGGTTATAGTAGTAGAGGCGGGTATGGTGGTGGTGGTGGTGGTGGTGAACAAGAAATTTTGA ACCAAGGTGGTGGATATGGTGGCGGTGTTGGAAGGATATGATGATACAATGAAGAAAGA
15		(CGGTAGTAACTATGGTGGTGGTGGAACIAIAAIGAIIIIGGAAAAIIACAAIAAAAAAAAAA
49 GA GO O O O O O O O O O O O O O		205 A C		CTCTCCTTTTTTCTTCAGATCTGCTCCTGGGTTTTAATTTGGGAGGTCA[G/A]TTGTTCACCTCACTG
49 GA GO GO GO GO GO GO GO GO GO GO GO GO GO				AGAGGGAACAGAAGGATATTGCTTCCTTTTGCAGCAGTGTAATAAAGGTCAATTAAAAACTTCCCAGGA
49 GA CO OO				ATTICITIGACCCAGGAAACAGCCATGTGGGTCCTTTCTGTGCACAAGCAGAAACTTGTTTTTT
36 A	WI-7314c	O		CAGAAAATGIGIAGICIACUIIIAIIIIIAIIAACAAAAAAAAAAAAA
199 C T 6 248 A C 6 221 A G 6 6 6 6 6 6 6 6 6 6 6 6 6				CTCTCCTTTTTTCTTCAGATCTGCTCGGGTTTTAATITIGGGAGGGGAG
36 A C C C C C C C C C C C C C C				AGAGGGAACAGAAACAGCATGTGGGTCCTTTCTGTGCACTATGAACGCTTCTTTCCCAGGA
36 A G 6 0 199 C T 6 0 0 199 C T 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WI-7314h	(1	<u>:</u>	CAGAAAATGTGTAGTCTACCTTTATTTTATTAACAAAACTTGTTTTT
36 A G 6 b 199 C T 6 199 C T 6 3b 248 A C 6 8c 221 A G		rt		CTCTCCTTTTTTCTTCAGATCTGCTCCTGGGTTTTTA[A/G]TTTGGGAGGTCAGTTGTTCTACCTCACTG
36 A G				AGAGGGAACAGAAGGATATTGCTTCCTTTTGCAGCAGTGTAATAAAGTCAATTAAAAAC11CCCAGG
36 A G 6 6 7 9 6 7 9 9 6 7 9 9 6 7 9 9 9 7 9 9 9 9				ATTICITTGGACCCAGGAAACAGCCATGTGGGTCCTTTCTGTGCACTATGAACGC11C111CCCAGGA
b 199 C T	1411,7314	36 46		CAGAAAATGTGTAGTCTACCTTTATTTTATTAACAAAACTTGTT111
199 C T 248 A C 221 A G		3		ACTCAGGGAAGGGATGCCCCATTAAAGTGACAAAAGGGTGGGGTGTGGGCACCATGGCATGAGGAAG
199 C T				AAACAAGGTCCCTGAGCAGGCACAAGTCCTGACAGTCAAGGGACTGCTTTGGCATCCAGGGCCTUCA
199 C T 248 A C				GTCACCTCACTGCCATACATTAGAAATGAGACAATCAAAGNNNNNNNNAGGGTGGCACACCCATCLO
199 C T 248 A C 221 A G	WI.7221h	199		/rjetttectegegtgtgecagccacatccaagactggagcagcaggctggcca
3b 248 A C 8c 221 A G	200			ACTCAGGGAAGGGATGCCCCATTAAAGTGACAAAAGGGTGGGGGTGTGGGCACCATGGCATGAGAAG
3b 248 A C 8c 221 A G				AAACAAGGTCCCTGAGCAGAGGCACAAGTCCTGACAGTCAAGGGACTGCTTTGGCATCCAGGGCCTCCA
3b 248 A C 8c 221 A G			-	GTCACCTCACTGCCATACATTAGAAATGAGACAATCAAAGNNNNNNNNNN
3b 248 A C	WI-7321			/TJGTTTGCTGGGGTGTGGCAGCACATCCAAGACTGGAGCAGCAGGCTGGCAA
248 A C				AGACATTCTCGCTTCCCTGAAAGACTGAAGAAAGTGTAGTGCATGGGACCCACGAAACTGCCTGGC
248 A C				TCCAGTGAAACTTGGGCACATGCTCAGGCTACTATAGGTCCAGAAGTCCTIAIGTIAAGCCCTGGCTACTATAGGTCCAGAAGTCCTTATGT
248 A C				GCAGGTGTTTATTAAAATTCTGAATTTTGGGGATTTTCAAAAGATAIIIIACAIACACIGIAIG
221 A G	WI-7336b	248 A C	•••	TATAGAACTTCATGGATCAGATCTGGGGCAGCAACCTATAAA1CAACJCA
221 A G				CTCTTTCTCAGCACATTGATGGGCAACTAGAATTACAGCAGTTTCAAAACTCTACCATGGATAATGCA
221 A G				AACAAACCGAAGCTACATGCCAATGATAGGTGCAAAGAAIAIIGGCAAAAGGIGCIIIACC
221 A G				CATTATTTGTGTCAGAGAACAAAAGAAACAGAATCAATATATAAATICAAAGACIAIGCAGAGA
	WI-7338c			GTGTGTTCTTCTTACACACACACACACACACACACACACA

			-	CTCTTTCTCAGCACATTGATGGGCAACTAGAATTACAGCAGTTTCAAACTCTACCATGGATAATGCA AACAAACCGAAGCTACATGCAATGATAGGTGCAAAGAAATATTGGCAAAAGGTGCTTT[A/C]CCTTG
WI-7338h	125 A			AGCCALIALIIGIGICAGAGAACAAAAAAAAAAAAAAAAA
		· ·		CTCTTTCTCAGCACATTGATGGGCAACTAGAATTACAGCAGTTTCAAACTCTACCATGGATAATGCA AACAAACCGAAGCTACATGCCAATGATAGGTGCAAAGAAATATTGGCAAAAGGTGCTTT[A/C]CCTTG
				AGCCATTATTTGTGTCAGAGAACAAAAGAAACAGAATCAATATATAAAATTCTGTT CTAGTGTTTGTTTACACACATATACACAGACAGACATCAGAAAATTCTGTT
WI-7338	125 A	1		CICHTICICAGGGGACTAGGGGGAAGTAGGAATTAGAGCAGTTTCAAACTCTACCATGGATAATGCA
		· · · · · · ·		AACAAACCGAAGCTACATGCCAATGATAGGTGCAAAGAATATTGGCAAAAGGTGCTTTACCTTGAGC
				CATTATTTGTGTCAGAGAACAAAGAAACAGAATCAATATATAAATTCAAAGACTATCTGCAGCIA
WI-7338	221 A	<u>.</u>		GTGTGTTTCTTCTTTACACAC(A/G)TATACACACAGACA1CAGAAAA11C1G11
ī				CCTATGTCAATGAAATGCTAGGGGGCCAGGGAAACAAAATTTTAAAAAATAATAAAAATTCACCATAG
				CAATACAGAATAACTITAAAATACCATTAAATACATTTGTATTTCATTGTAATGGAACAGGIAIIICIICA
				CAGATCTCATTTT[T/A]AAAATTCTTAATGATTATTTTTATTACTTACTIGIIIAAAGGGAIGIIA
WI-7384c	146 T		;	TITTAAAGCATATACCATACACTTAAGAAATTTGAGCAGAAIIIAAAAAAAAA
- -	<u>; </u>			CCTATGTCAATGAAATGCTAGGGGCCCAGGGAAACAAAATTTTAAAAATAATAAAAATTCACCATAG
				CAATACAGAATAACTITAAAATACCATTAAATACATTTGTATTTCATTGTAACAGGTAIIICIICA
	_	,		CAGATCTCATTTT[T/A]AAAATTCTTAATGATTATTTTTATTACTTACTTG111AAAGGGA1G11A
WI-7384b	146 T	Α	•	TTITAAAGCATATACCATACACTTAAGAAATTTGAGCAGAAIIIAAAAAAAAAA
1	-			CCTATGTCAATGAAATGCTAGGGGCCAGGGAAACAAAATTTTAAAAATAATAAAATTCACCATAG
				CAATACAGAATAACTITAAAATACCATTAAATACATTIGTATTTCATTGTGAACAGGIAIIICIICA
				CAGATCTCATTT[T/A]TAAAATTCTTAATGATTATTTTTTATTACTIGITGITAAAGGGAATGITA
WI-7384	145 T	A		TTTTAAAGCATATACCATACACTTAAGAAA111GAGCAGAA111AAAAAAAAAA
				TGAAATCCTGGGTCTCTTGGCCTGTCCTGTAGCTGGTTTATTTTTACTTTGCCCCCTCCCCACTTTTT
				TGAGATCCATCCTTTATCAAGAAGTCTGAAGCGACT[A/TJTAAAGGTTTTTGAATICAGATITAAAA
				ACCAACTTATAAAGCATTGCAACAAGGTTACCTCTATTTTGCCACAAGCGTCTCGGGATTGTGTTTGA
WI-7388c	106	A T		CTTGTGTCTGTCCAAGAACTTTTCCCCCAAAGATGTGTATAGTTATIGG
				TGAAATCCTGGGTCTCTTGGCCTGTCCTGTAGCTGGTTTATTTTTACTTTGCCCCCTCCCCCCTTTTTT
			_ =	TGAGATCCATCCTTTATCAAGAAGTCTGAAGCGACT[A/T]TAAAGGTTTTTGAATTCAGATTTAAAA
				ACCAACTTATAAAGCATTGCAACAAGGTTACCTCTATTTTGCCACAAGCGICICGGGAIIGIGIIIGA
WI-7388b	106 AT	A T		CTTGTGTCCAAGAACTTTCCCCCAAAGATGTGTATAGTTATGG

			TGAAATCCTGGGTCTCTTGGCCTGTCCTGTAGCTGGTTTATTTTTACTTTGCCCCCTCCCCTCTTTTAAAA TGAGATCCATCCTTTATCAAGAAGT/AJCTGAAGCGACTATAAAGGTTTTTGAATTCAGATTTAAAA
WI-7388	₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽	!	ACCAACTTATAAAGCATTGCAACAAGGTTACCTCTATTTTGCCACAAGCGTCTCGGGATTGTGTTTGA
	.		TTAGATTTTAATTGGCAACCAGCAACTCACTGCCACCATTCCACTGCAGATCTNCTATTCCTGGAGGAGGCTCCT
WI-7438	64 A G	!	TGTCTGTAGGTGTAGCATGTACACTGTACTGTTCACTGTAACATAGTTTGTNCTGGTATTTGTTA TTGGAAATGAATATCGCTTCCACTGACTTTTACCA
	:!		CCATGATCCCCTCCTCTTGCCAAATGGAGGAAGCCTGTGGATGGTACCAACAAACA
WI-7454b	152 T	•	TCCTACCCCTGGATTTCT[I/C]TGTTTAAGTTATTTCTAGCCACACAAAGAGGGTACTGCCCAAACAACTGTTTTTGACA
			CCATGATCCCCTCCTCTTGCCAAATGGAGGAAGCCTGTGGATGGTACCAACAACAAAGCCCCAAACC
WI-7454	152 T C		TCCTACCCTGGATTTCT[T/C]TGTTTAAGTTATTTCTAGCCACCACAAAGAGGGTACTGCCAAACAAA
			AATTTGAAAATCTGAAAAAAAGTGCATAAGCAGAGAAATGACACTTATTCCAAATAAAT
	27		CAACAGAGCCACAGCACAAGAGGGTGGGCATAAGCAGTTGCCA[G/C]CCAGAAGAGCTTTCACTCAT GAAAGAAAGCCCTACAAATAGGCCCAGGAGAAGCAACGTTCACCAACAATAAT
2	5		AATTTGAAAAATCTGAAAAAAAGTGCATAAGCAGAGAAATGACACTTATTCCAAATAAAT
			CCATTTTCACTCAGTCCATCTTAACCATGTACAATGCACTAAATTACTATTTTCACTCAGTCAG
WI-7464b	168 C A		GAAAGAAAGCCCTACAAATAGGCCCAGGAGAAGCAACGTTCACCAACAATTAT
			AATTTGAAAATCTGAAAAAAAGTGCATAAGCAGAGAAATGACACTTATTCCAAATAAAT
			CCATTTTTCACTCAGTCCATCTTAACCATGTACAATG[C/A]ACTAAATTACTAAATTACTATTTCATTTCATTTCAT
WI-7464a	103 C A	:	GAAAGAAAGCCCTACAAATAGGCCCAGGAGGAAGGTTCACCAACAATTAT
			CAATTCTCAATCCAACCTAGTCTGTNTGCCTAAACCATTCCAGACAAACTTCCACTTCGAAGGTTTTA
			AATGCATAAGTCAGATAGCAATCCTTCAGTTGCCCCAGAGGCACATCACGTTCTTTGAATGCTTCAT
7007		1	/GJTATAGTCCTCTTCATTTAGCAALCAGTGAGGCAALACACTGGCATCATTTTTGGAAATGAGTGATGA
106647-14A		1	

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			CAATTCTCAATCCCAACCTAGTCTGTN1GCC1AAQAGCAATCCAGACAACAACATCAATTGAATGCTTCAGTTGAATGCTTCAGTTGAATGCTTCAGTTGCCCCAGAGGACACACAC
			ATTATAGTCCTCTTCATTTAGCAATCAGTGAGGCAATACACTGGCATCATGATCCCTTTTTTAGGAA
WI-7499a	33 A G	•	CTCTGTACAAAATTCCCTTTGAAAATATAAATTTTGGAAATGAGTGATGA
			TGGGAATAGTAAGAGAAGATGGGAAAGGTGACCAAAAACAATATAGAGGCAGAGGCCAAGTGAAT
			TGCCACAGGTAAGAATGAGTGAAGAGGAAAAAATCATGATGTCATGTATGCAGTAATTACTATGTCA
WI-7506b	118 A C	•	GAAGAAAATATTTAAAATATTGGACCACTCTTGTTCTACCATCCCTACCCACI
			TGGGAATAGTAAGAGAAAGATGGGAAAGGTGACCAAAAACAATATAGAGAGGCAGAGGGCAAGTGAAT
			GCAICCCAGAGAAGAATGAAGAAGAAAAAATCATGATGTCATGTATGCAGTAATTACTATGTCA
WI-7506	118 A C	ļ	GAAGAAAATATTTAAAATATTGGACCACTCTTGTTCTACCATCCCTACCCACT
Ţ			TGTGAATTCTTAGCTCTGGAAGGTGTTTATGCCTTTGCGGGTTTCTTGATGTTCTCCAGTGTCACCCA
			AGAGTCAGAACTGTACACATCCCAAAATTTGGTGGCCGTGGAACACATTCCCGGTGATAGAATTGCT
			AAATTGT[C/T]GTGAAATAGGTTAGAATTTTTCTTTAAATTATGGTTTTCTTATTCGTGAAAA11CGG
WI-7534b	143 CT		AGAGTGCTGCTAAAATTGGATTGGTGTGTTTIIIGGTAGIIGIAAIII
			TGTGAATTCTTAGCTCTGGAAGGTGTTTATGCCTTTGCGGGGTTTCTTGATGTGTTCGCAGTGTCACCCA
			AGAGTCAGAACTGTACACATCCCAAAATTTGGTGGCCGTGGAACACATTCCCGGTGATAGAATTGCT
			/cjaaattgtcgtgaaataggttagaatttttctttaaattatggttitcttdaaaaiicgg
WI-7534	135 T C	1	AGAGTGCTGAAAATTGGATTGGTGTGATCTTTTTGGTAGTTGTAATTI
	ī		GGGAAAGAATAAAATTAGCTTGAGCAACCTGGCTAAGATAGAGGGGCTCTGGGAGACTTTGAAGACC
			AGTCCTGTTTGCAGGGAAGCCCCACTTGAAGGAAGAAGTCTAAGAGTGAAGTGGGTGTGACTTGAAC
			TAGATTGCATGCTTCCTCCTTTGCTCTTTGAJGGAAGACCAGCTTTGCAGTGACAGCTTGAGTGACAGCTTGAGTGACAGCTTGAGTGACAGCTTGCAGTGACAGCTTGCAGTGACAGCTTGCAGTGACAGCTTGCAGTGACAGCTTGCAGTGACAGCTTGCAGTGACAGCTTGCAGTGACAGCTTGCAGTGACAGCTTGCAGTGACAGCTTGCAGTGACAGCTTGCAGTGACAGCTTGCAGTGACAGCTTGCAGTGAGAGGAGAGAGA
WI-7543b	162 GA		CTCTGCAGCCCTCAGATTATTTTCCTCTGGCTCCTTGGATGTAGTCAGTTA
			GGGAAAGAATAAAATTAGCTTGAGCAACCTGGCTAAGATAGAGGGGCTCTGGGAGACTTTGAAGACC
			AGTCCTGTTTGCAGGGAAGCCCCACTTGAAGGAAGAAGTCTAAGAGTGAAGTGGTGTGTGT
			TAGATTGCATGCTTCCTCCTTTGCTCTT[G/A]GGAAGACCAGCTTTGCAGTGACAGCTTGAGTGAGTGAGTG
WI-7543	162 G A		CTCTGCAGCCCTCAGATTATTTTCCTCTGGCTCCTTGGATGTAGTCAGTIA
			GGTGATCAAGATCTGTTCCACAGGGCTAATGCCACCATCTCCCCTCAAAATTTGTAGAGG[T/CJTCTA
			AAAAGAAAGTGGTATGTTGTGATGATCAGCACTAAGTCCTGCATTCCTGTTAAAGCCACTTGGGTC
			ATAAGAAGGGAAGTAAAAAATGAAGTCTGACTAGAAATTCTATTGCAGAGGCCAAGTACALLIAGI
WI-7555c	60 T C	,	ATGGCATTGAGTTGTATAGTTTTCATTTGATGTGCATTTTGAATTICAG

			GGTGATCAAGATCTGTTCCACAGGGCTAATGCCACCATCTCCCCTCAAAATTTGTAGAGG[T/CJTCTAAAAGAAGTGGTATTGTTGTGTGATGATCAGCACTAGGTCCTGCATTCCTGTTAAAGCCACTTGGGTCATAAGAAAGTGGTAAAAAAATGAAGTCTGACTAGAAAATTCTATTGCAGAGGGAAGTAAAAAATTTAGTAAAAAATTGAATTTAGTAAAAAA
WI-7555b		i .	GGTGATCAAGATCTGTTCCACAGGGCTAATGCCACCATCTCCCCTCAAAATTTGTAGAGG[T/CJTCTAAAAGAAAAGTGGTATGTTGTGTGTGATGATGAAGCCACTAGGTCTAAAGAAAAGTGGTATGTGTGTG
WI-7555			ATAAGAAGGGAAGTAAAAATGAAGTCTGACTAGAAATTCTATTGCAGAGGCCAAGTACATTAGA ATGGCATTGAGTTGTGATATAGTTTTCATTTGATGTGCATTTTGAATTTCAG
			TGAGCCATCACTAGAAGAAAAAGGCCCATTTTCAACTGCTTTGAAACTTGCCTGGGGTCTGAGCATGATGGGCGTTGGGGCTTGGGGCGCTTGGGGGAATAGGGAGGG
WI-7567b	290 GT		ATCGCTAAGCTGGCTCTGT11GA1GCTA11TATGCATGGCTGGGCTCTGTTT TCTTCAGGGTCTAAAGATCAGGGCCTTGGATCGCTAAGCTGGCTCTGTTT
			AATGTATCCCCTTTCGGTCCAACAGGAAACCTGGCTGGGGCAGTGAAGGAAG
WI-7569b		:	TECGACATTGTGAAGGCTTAAATGAGTTTGAGAGAGAGAGAG
			GCCACAGCAGAATGGAGCGGTGTGAAGGTCCCTTTTCCTCTGTTTTGTGTTTGCCAAGGCCAAAC TCCCACTCTCTGCCCCCTTTAATCCCCTTTCTACAGTGAGTCCACTACCCTCACTGAAAAATCATTTG
WI-75746	216 A G	!	TACCACTTACATTTTAGGCTGGGGCAAGCAGCCCTGACCTAAGGGGAGAATGAGTTGACAGTTACCAGGGGGAAGAATGAGTTGAGGGGGGGG
1			GCCACAGCAGAATGGAGCGGTGTGAGGAAGGTCCCTTTTCCTCTGTTTTGTGTTTGCCAAGGCCAAAC TCCCACTCTGCCCCCTTTAATCCCCTTTCTACAGTGAGTCCACTACCCTCACTGAAAATCATTTTG
WI-7574h	216 A G	1	TACCACTTACATTTTAGGCTGGGGCAAGCAGCCCTGACCTAAGGGAGAATGAGIIGGACAGIICIIG ATAGCCCAGGGC[A/G]TCTGCTGGGCTGACCACGTTACTCCATCCCGTTA
			GCCACAGCAGAATGGAGCGGTGTGAGGAAGGTCCCTTTTCCTCTGTTTTGTGTTTGCCAAGGCCAAAC TCCACTCTCTGCCCCTTTAATCCCCTTTCTACAGTGAGTCCACTACCCTCACTGAAAATCATTTG
WI-7574	216 A G		TACCACTTACATTTTAGGCTGGGGCAAGCAGCCTGACCTAAGGGAGAATGAGTTGGACAGTTCTTG ATAGCCCAGGGGJVGJTCTGCTGGGCTGACCACGTTACTCATCCCCGTTA
			AATGATGATGATGATGATGATGACGACGACGACGATGATGCTTGTAACAAGAAAACATAAGAGGACGTACTAGTTCAGACACACTTTGGAAGTTTGTGTTTGAAGACACACTTTTGAAGACACACTTTGAAGACACACTTTGAAGACACACTTTGAACACACAC
			TCTGTTTGTTAAAACTGGCATCTGACAAAAAAAAAAJGTTGAAGGCCTTATTCTACATTTCACCTAC
WI-7576c 168 A T	168 A T		TTIGI AAGI GAGAGAGAAGAAGAAAANNININININININININININI

				AATGATGATGATGATGATGACGACGACGATGATGCTTGTAACAAGAAAACGTAAGAGGGGGGCTTGTAACAAAAACTTTGGAAGTTTGTGTTCTGGTTCAGACACTTTGGAAGTTTTGTGTTTCTGGTTTGTTGTTAAAAAATTTTGACAAAAAAAA
WI-7576b	168 A		:	I I GI AAGI GAGAGAAGAAGAAGAAANNININININININININININI
				AACCATGTTCCCTTCTTCTTAGCACCACAATAATCAAAACCCAACATAAGTG111GC1111CC1111AA
				AAAGAAGTTCATTTTGGTTTACACGTAGGAAAGAAGAAGCATCAAAAGTGGAGATATGTTAACTAT
WI-7577q	77 T	·		TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTIC
				AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCAACATAA(G/CJTGTTTGCTTTCCTT
				TAAAAATATGCATCAAATCGTCTCTCATTACTTTTCTCTGAGGTTTTAGTAAACAGTAGGAATTAAAGTAA
				AAAGAAGTTCATTTTGGTTTACACGTAGGAAAGAAGAAGGAAG
WI-7577p	50 G	-:-		TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
				AACCATGTTCCCTTCTTGTTAGCACCACAAATAATCAAAACCCAACATAAGTGTTTGCTTTCCTTTAA
				AAATATGCATCAAATCGTCTCTCATTACTTTTCTCTGAGGGTTTTAGTAAACAGTAGGAGIIAAIAA
				AGAAGTTCATTTTGGTTTACAC[G/AJTAGGAAAGAAGAAGAAGCATCAAAGTGGAGATA1G11AAC1
WI-75770	157 G	A	•	ATTGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTIC
				AACCATGTTCCCTTCTTTAGCACCACAAATAATCAAAACCCAACAT[A/G]AGTGTTTGCTTTCCTT
				TAAAAATATGCATCAAATCGTCTCTCATTACTTTTCTCTGAGGGTTTTAGTAAACAGTAGGAGTAAACTAAACTAAACTAAACTAAAAAAAA
				AAAGAAGTTCATTTTGGTTTACACGTAGGAAAGAAGGAAG
WI-7577n	48 A	<u>ت</u> 		TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATIGACIGIAIIIC
				AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCAACATAAGTGTTTGCTTTCCTTTAA
				AAATATGCATCAAATC[G/A]TCTCTCATTACTTTTCTCTGAGGGTTTTAGTAAACAG1AGGAG11AA1
				AAAGAAGTTCATTTTGGTTTACACGTAGGAAAGAAGAAGAAGCATCAAAGTGGAGAIAIGIIAACIAI
WI-7577m	84 G	V	:	TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTIC
				AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCAACATAAGTGTTTGCTTTCCTTTAA
		1		AAATATGCATCAAATCGTCTCTCAT[T/C]ACTTTTCTCTGAGGGTTTTAGTAAACAGTAGGAGTTAAT
				AAAGAAGTTCATTTTGGTTTACACGTAGGAAAGAAGAGGAGCATCAAAGTGGAGATAIGI I AACI AI
WI-7577I	93 T	::	•	TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTIC
				AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCAACATAAGTGTTTGCTTTCCTTTAA
				AAATATGCATCAAATCGTCTCTCATTACTTTTCTCTGAGGGTTTTAGTAAACAGTAGGAGTTAATAA
				AGAAGTTCATTTTGGTTTA[C/A]ACGTAGGAAAGAAGAGGAAGCATCAAAGTGGAGATATGTTAACT
WI-7577k	154 CA	Α	•	ATTGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTIC

			THE STATE OF THE S
			AACCATGTTCCCTTCTTCTTCATCATCATCATCATCATCATTTTAGTAIA/GIACAGTAGAGTTAAT
			AAATATGCATCAAATCGICICICALIACIIIICICIGAAAAAAAAAAAAAAAAAA
			AAAGAAGTTCATTTTGGTTTACACGTAGGAAAGAAGAAGAAGAAGAAGCATCAAATGTCATTTTG
WI-7577j 117 A	-:-5		TOTAL CALL CONTROL CON
			AACCATGTTCCCTTCTTCTTAGCACCACAAATAATCAAAACCCAACATAAGIGTTTGCTTTGAGGGTTTTAGTAAACAGTAGGAGTTAAATAAA
		-	AAATA1GCA[1/C]CAAA1CG1C1C1CA11AC1117C1C1CACCCCTTTTACAAGTGGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGA
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WI-7577i 77	 D	:	TOTAL MAISTER CONTRACTOR OF THE ANALYSIA AND AND AND AND AND AND AND AND AND AN
			AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAAAAAA
			TAAAAATATGCATCAAATCGTCTCTCATTACTTTTCICIGAGGGIIIIAGIAAACAGIAAGTAAACTAT
			AAAGAAGTTCATTTTGGTTTACACGTAGGAAAGAAGAAGAAGCAICAAAGIGGAAGIGGAAAIIIGIIAACIA
Wi-7577h 50		•	TGTATATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTIC
╄┈			AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCAACATAAGTGTTTGCTTTCCTTTAA
_			AAATATGCATCAAATCGTCTCTCATTACTTTTCTCTGAGGGTTTTAGTAAACAGTAGGAGTTAATAA
			ACA A CITICALITY OF THE ACTION
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WI-7577g 157	7 G A		Alicial Alicia (Alicia) and a second a second and a second a second and a second a second and a second and a second and a
			AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAAACCCCAACAT[WGJAGTGTTTGCTTTAAT
			TAAAAATATGCATCAAATCGTCTCTCATTACT111C1C1GAGGG1111AG1AAACAATCGTCTCATTA
			AAAGAAGTTCATTTTGGTTTACACGTAGGAAAGAAGAAGAAGCATCAAAGTGGAGATAIGIIAACIAI
M/1-7577f 4	7 A B A C	į	TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
i	2		AAACCATGITTCCTTCTTAGCACCACAAATAATCAAAACCCAACATAAGTGTTTGCTTTCCTTTAA
			AAAATATAGATGAAATGAATGAATGAATGAATGAATGAA
			AAAAAAAAGTTTCATTTTGGTTTACACGTAGGAAAGAAGAAGCATCAAAGTGGAGATATGTTAACTAT
1A11 75770 0	<u> </u>		TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
-	<u> </u>		AACCATGITCCCTTCTTAGCACCACAAATAATCAAAACCCAACATAAGTGTTTGCTTTCCTTTAA
			AAATATGCATCAAATCGTCTCTCAT[T/C]ACTTTTCTCTGAGGGTTTTAGTAAACAGTAGGAGTTAAT
		***	AAAGAAGTTCATTTTGGTTTACACGTAGGAAAGAAGAAGAAGCATCAAAGTGGAGATATGTTAACTAI
WI-7577d 9	93.7.0	1	TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
1	i		AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCAACATAAGTGTTTGCTTTCCTTTAA
			AAATATGCATCAAATCGTCTCTCATTACTTTTCTCTGAGGGTTTTAGTAAACAGTAGGAGTTAATAA
			AGAAGTTCATTTTGGTTTA[C/A]ACGTAGGAAAGAAGAAGCATCAAAGTGGAGATATGTTAACT
WI.7577	154 C A	_;	ATTGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC

WI-7577h 1	17 A		· .	AACCATGTTCCCTTCTTGTTGCACCACAAATAATCAAAACCCCAACATAAGTGTTTGCTTTCCTTTAA AAATATGCATCAAATCGTCTCTCATTACTTTTCTCTGAGGGTTTTAGTA(A/G)ACAGTAGGAGTTAAT AAAGAAGTTCATTTGGTTTACACGTAGGAAAGAAGGAAGCATCAAAGTGGAGATATGTTAACTAT TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
· · · · · · · · · · · · · · · · · · ·				AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCAACATAAGTGTTTGCTTTCCTTTAAAAAATGCATCCCTTTAATAAAAATGCATCTCTCATTACTTTTCTCTGAGGAGGAGTTTAGTAAACAGTAGGAGTTAATAAAAAGAAGAAGAAGAAGAAGAAGAAG
WI-7577	107 G/	V	-	TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTGTTTCC ACAAGGCGACTTGAAGAGGACGCAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGGAGACAAAGAAAAAAAA
Wi-76199	106 C	 		ATGGCAGGAAGAATGGGGCCTCTAAGGGGAGTGTGGGGGTCTGTCT
				ACAAGGCGACTTGAAGAGGACGCAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGGCCCAAGAGAGGCCAATGGGTCATCCCCTCAACGAGACTCTCTGTGCTGGGGGTGCTAATTACATGG
WI-7619p 1	150 T	<u> </u>	•	TCTCGCTTTCTTTACACAGAAACATACAGAGAAACCTATTC
:	·			ACAAGGCGACTTGAAGAGGACGCAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGACAGGAAAGGACAAGACAAGACAAGAAG
WI-76190 2	228 A	:. 	•	ACAAGGGGACTTGAAGAGGACGCAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC
	(AGAGAAGGGCCAATGGGGTCATCCCCTCAACGAGACTCTCTGTGCTGGGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGAGTGTGGGGTCTGTCTCTCCCTTTTTCCATCTTTTTCCTCTCT CGCTTTCTTTCTACACAGAAACATACACATACCIG/CIAGAAACCTATTTC
0 US107-1W	762			ACAAGGCGACTTGAAGAGGACGCAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGACAAAGAGCGAAAGAGCACAAGACAAAGAGAAGA
WI-7619m) 66	<u> </u>		TGGCAGGAAGAATGGGGCCTCTAAGGGGAGTGTGGGGGTCTGTCT
				ACAAGGCGACTTGAAGAGGACGCAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC AGAGAAGGGCCAATGGGGTCATCCCCTCCCTAACGAGACTCTCTGTGCTGGGGGGTGCTAATTACATGG
WI-76191	189 T A			CAGGAAGAATGGGGCCTCTAAGGGGAGTGTGGGGTCTGTCT

				ACAAGGCGACTTGAAGAGGACGCCAGGCTTCCAGAGGACAAACCCCAATACAGGAGAGAGCACAAGAACCAAGAAGCACAAGAACAAGAAG
WI-7619k	3 0 G	 g	:	CTCTCGCTTTCTTTCTACACAGAACATACACATACCGAGAAACCTATTC
				ACAAGGCGACTTGAAGAGGACGCAGGCTTCCAGAGGACAAACCCCCAATACAGGAGAAGCACAAGAC AGAGAAGGCGACTAGGAGAGTCTCTGTGTGCTGGGGGGGG
		·····		CAGGAAGAATGGGGCCTCTAAGGGGAATTGGGGGTCTGTCT
WI-7619j	206 T	 -5		CGC[T/G]TTCTTTACACAGAACATACACATACCGAGAAACCTATTTC
·				ACAAGGCGACTTGAAGAGGACGCAGGCTTCCAGAGGACAAAACCCCAATACAGGAGAAGAGGCTCAATACAGAGAGGCCCAATGGGGTCATCCCTCCTAACGAGACTIC/GITCTGTGCTGGGGGTGCTAATTAC
				ATGGCAGGAAGAATGGGGCCTCTAAGGGGAAGTGTGGGGTCTGTCT
WI-7619i	106 C	 g		CTCTCGCTTTCTTTCTTACACAGAAACATACACATACCGAGAAACCIAIIIC
				ACAAGGCGACTTGAAGAGGACGCAGGCTTCCAGAGGACAAACCCCCAATACAGGAGAAGGCACAAGACACATACAT
				AGAGAAGGGCCAATGGGGTCATCCCCTAACGAGACTCTCTGTGGGGGGGG
	- H			CAGGAAGAATGGGGCCTT/CJCTAAGGGGAGTGTGGGGGTCTGTGTCTCTCTCTTTCTTACACAGAAACATACCGAGAAACCTATTTC
WI-/019n	001	3		ACAAGEGGACTTGAAGAGGACGCAGGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC
				AGAGAAGGGCCAATGGGGTCATCCCCTCAACGAGACTCTCTGTGCTGGGGGGTGCTAATTACATGG
				CAGGAAGAATGGGGCCTCTAAGGGGGAGTGTGGGGGTCTGTCT
WI-7619g	228 A	 0	1	CGCTTTCTTTCTTACACAGAAACAT[A/G]CACATACCGAGAAACCTATTTC
	_			ACAAGGCGACTTGAAGAGGACGCAGGCTTCCAGAGGACAAACCCCCAATACAGGAGAAGCACAAGAC
				AGAGAAGGGCCAATGGGGTCATCCCCTCCCTAACGAGACTCTCTGTGCTGGGGGTGCTAATTACATGG
				CAGGAAGAATGGGGCCTCTAAGGGGAGTGTGGGGTCTGTCT
WI-7619f	237 6	GC	•	CGCTTTCTTTACACAGAAACATACACATACC(G/C)AGAAACCTATTIC
				ACAAGGCGACTTGAAGAGGACGCAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC
				AGAGAAGGGCCAATGGGGTCATCCCCTCCCTAA(C/T)GAGACTCTCTGTGCTGGGGGTGCTAA11ACA
			-	TGGCAGGAAGAATGGGGCCTCTAAGGGGAGTGTGGGGGTCTGTCT
WI-7619e	99	СТ		TCTCGCTTTCTTTCTTACACAGAAACATACACATACCGAGAAACCTATTIC
				ACAAGGCGACTTGAAGAGGACGCAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC
			J- 00-	AGAGAAGGGCCAATGGGGTCATCCCCTCAACGAGACTCTCTGTGCTGGGGGTGCTAATTACATGG
				CAGGAAGAATGGGGCCTCTAAGGGGAGTGTGGGGGTCTGTCT
WI-7619d 189 T A	189	r A		TCTCGCTTTCTTACACAGAAACATACACATACGGAGAAACCIAIIIC

			ACAAGGCGACTTGAAGAGGACGCAGGCTTCCAGAGGACAAACCCCCAATACAGGAGAAGCACAAGAC AGAGAAGGGCCAATGGGGTCATCC[C/G]CTCCCTAACGAGACTCTCTGTGCTGGGGGGTGCTAATTAC
			ATGGCAGGAAGAATGGGGCCTCTAAGGGGAGTGTGGGGTCTGTCT
WI-/619C	5		ACAAGGCGACTTGAAGAGGACGCAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGACAAAGAAAAAAAA
			CAGGAAGAATGGGGCCTCTAAGGGGAGTGTGGGGTCTGTCT
WI-7619b 2	206 G		
			ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAAACCCCAATACAAGAAAAGAAAAAAAA
14/1-7610		į	CAGGAAGAATGGGGCCTCTAAGGGGAGTGTGGGGTCTGTCT
i	-;		COTTTETATETERAAGTATACCTGGCTTTTTAAAATATATATGTATTTAAAAACAAAAAGCAACAGTAA
			TCTATGTGTTTCTGTAACAAATTGGGATCTGTCTTGGC[A/G]TTAAACCACATCATGGACCAAATGTG
			CCATACTAATGATGAGCATTTAGCACAATTTGAGACTGAAATTTAGTACACTATGTTCTAGGTCAGT
WI-7626d 1	105 A G		CTAACAGTTTGCCTGCTGTATTTATAGTAACCATTTTCCTTTGGACTGTTCA
			CCTTTGTATGTGGAAGTATACCTGGCTTTTTAAAATATATGTATTTAAAAACAAAAAGCAACAGTAA
			TCTATGTGTTTCTGTAACAAATTGGGATCTGTCTTGGCATTAAACCACATCATGGACCAAATGTGCCA
			TACTAATGATGAGCATTTAG(C/TJACAATTTGAGACTGAAATTTAGTACACTATGTTCTAGG1CAG1
WI-7626c 1	155 CT		CTAACAGTTTGCCTGCTGTATTTATAGTAACCATTTTCCTTTGGACTGTTCA
			CCTTTGTATGTGGAAGTATACCTGGCTT[T/A]TTAAAATATATGTATTTAAAAACAAAAAGCAACAG
			TAATCTATGTTTCTGTAACAAATTGGGATCTGTCTTGGCATTAAACCACATCATGGACCAAAATGTG
			CCATACTAATGATGAGCATTTAGCACAATTTGAGACTGAAATTTAGTACACTATGTTCTAGGTCAGI
WI-7626b	28 T A	-	CTAACAGTTTGCCTGCTGTATTTATAGTAACCATTTTCCTTTGGACTGTTCA
			CCTTTGTATGTGGAAGTATACCTGGCTTTTTAAAATATATGTATTTAAAAAACAAAAAGCAACAGTAA
			TCTATGTGTTTCTGTAACAAATTGGGATCTGTCTTGGCATTAAACCACATCATGGACCAAATGTGCCA
			TACTAATGA[T/O]GAGCATTTAGCACAATTTGAGACTGAAATTTAGTACACTATGTTC1AGG1CAG1
WI-7626	144 T C		CTAACAGTTTGCCTGCTGTATTTATAGTAACCATTTTCCTTTGGACTGTTCA
			TCCCATAACCGCTGATTCTCAGGGTCTCTGCTGCCGCCCCACCCA
			TTCCCAGTGGCTGCTGCCCAGGCCCAGACCTTCTAGGACGCCACCCAGCAAAAGGTTGTTCCTAAAAA
			/GJTAAGGGCAGAGTCACACTGGGGCAGCTGATACAAATTGCAGACTGTGTAAAAAGAGAGGCTTAAT
WI-7689c 134 A.G.	134 A G		GATAATATTGTGGTGCCACAAATAAAAIGGAIIIAIIAGAAIIICAIAIGAC

			TCCCATAACCGCTGATTCTCAGGGTCTCTGCTGCCGCCCCACCCA
WI 7690h			//GITAAGGGCAGAGTCACACTGGGGCAGCTGATACAAATTGCAGACTGTGTAAAAAGAGAGCTTAAT GATAATATTGTGGGGCACAAATAAAATGGATTTATTAGAATTTCATATGAC
			TCCCATAACCGCTGATTCTCAGGGTCTCTGCTGCCGCCCCACCCA
WI-7689	121 GA	1	AATAAGGGCAGAGTCACACTGGGGCAGCTGATACAAATTGCAGACTGTGTAAAAAGAGAGGGCTTAATAAAATTGCATATGACTGTGGATTTATAGAATTTCATATGAC
1)		TGGAGAACATTCAATCTTGCCGTCACTATTCATCAATGAAGATTA[G/A]CACTGAGATCCAGAGAGGGCTTGATCTGGATGACTTGATGGCAAAGAGAGGGTCCAGAGTCCTGGCCTTGAT
0692-IM	45 G A	i	GCCCAGCTCAGTGCCACAAAGCTCAGTAGGAGGGATGTTCCAGTGGATGAGGGCCACCAGGAAGCACAGGCCACCAGGAAGCACAGTTCATCAGCAACAACTGTCAGTTCATCC
	i		ACAGAAAAGTTGAATTTTACATGGCTGGAGCTAGAATTTGATATGTGAACAGTTGTGTTTGAAGCACACAAGTGAAAAGAAGTCATTCAGATATGAATTTGGAAACAAGTCAGTC
WI-7703h	164 T C	ļ	TGTCTATAAACCAAACTGATGTAAGTAAA[T/C]GGTCTCTCACTTGTTTTATTTAACCTCTAAATTCT
+			ACAGAAAAGTTGAATTTTACATGGCTGGAGCTAGAATTTGATATGTGAACAGTTGTGTTTGAAGCACACAGAACAAGTCAAGTTGAATATGATTTCACATTGGAAACAAGTCAGTC
WI-7703	156 T C		TGTCTATAAACCAAACTGATG[T/C]AAGTAAATGGTCTCTCACTTGTTTTATTTATTGTTTTAGGGGTAGCATTTGTGTTGAAGAGGTTTTAAAGCTTCCATTGT
1	•		TTAAATGAGTGTGTTGTCACCGTTGGGGATTGGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAGGGTTCAGAGACTCAGAGAGCTCAGGAGCCAAGGAGCAGCAGGAGTCAGAGAGCAGCAGGAGTCAGAGAGTCCAGGAGTCCCTGGTAATAAGTACT
WI-7743e	106 C.A	ł	GTGTACAGAATTCTGCTACCTCACTGGGGTCCTGGGGCCTCGGAGCCTCATCCGAGGGGGGGG
 -	1		TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGGAAGACTGTGGCTGCTGGCACTTGGAGGCCAAGGGGTTCAGAGACTCAGGGGCCCCAGGAGTCCCTGGTAATAAGTACTGTG
WI-7743d	275 CT	}	TACAGAATTCTGCTACCTCACTGGGGTCCTGGGGCCTCGGAGCCTCATCCGAGGCCAGGGTCAGGAGAGGGGAGAGAGA
			TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAGG
WI.7743e	400 400		GTGTACAGAATTCTGCTACCTCACTGGGGTCCTGGGGCCTCGGAGCCTCATCCGAGGCAGGGTCAGGA GAGGGGCAGAACAGCCGCTCCTGTCTGCCAGCAGCAGCCACAGCTCTCAGCC

				TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAGGGGTTCAGAGCTCAGGGCCAAGGGTTCAGAGTAATAAGTACTGTGGACTCAGAGCCTCAGAGCTCATCAGAGGTCAGAGGGGTCAGAGGGGTCAGAGGGGTCAGAGGGGTCAGAGAGGTCATCAGAGGTCAGAGAGGTCAGAGAGGTCAGAGAGGTCAGAGAGGTCAGAGAGGTCAGAGAGGTCAGAGAGGTCAGAGAGGTCAGAGAGGTCAGAGAGGTCAGAGAGGTCAGAGAGAG
WI-7743d	275 CT	i	:	GGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCCGCTCTCAGCCAACG
-)		:	TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAAGG
				GTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACJC/AJCCAGGAGTCCCTGGTAA1AAG1AC1
				GTGTACAGAATTCTGCTACCTCACTGGGGTCCTGGGGCCTCGGAGGCTCGTCCGAGGCAGGC
WI-7743e	106 CA	;	•	GAGGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCCAGC
_				TTAAATGAGTGTGTTGTCACCGTTGGGGATTGGGGAAGACTGTGGCTGCTGCCACTTGGAGCCAAGG
				GTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCCAGGAGTCCCTGGTAATAAGTACTGTG
				TACAGAATICTGCTACCTCACTGGGGTCCTGGGGCCTCGGAGCCTCATCCGAGGGCAGGGGICAGGAGAGG
WI-7743d	275 CT	-		GGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCTCTCAGCCAACG
				TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAAGG
				GTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACIC/AJCCAGGAGTCCCTGGTAATAAGTACI
				GTGTACAGAATTCTGCTACCTCACTGGGGTCCTGGGGCCTCGGAGCCTCATCCGAGGCAGGGTCAGGA
WI-7743c	106 CA	,		GAGGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCTCTCAGCC
				TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGGAAGACTGTGGCTGCTGCCACTTGGAGCCAAGG
				GTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCCAGGAGTCCTGGTAATAAGTACTGTG
				TACAGAATTCTGCTACCTCACTGGGGTCCTGGGGCCTCGGAGCCTCAICCGAGGCAAGGCA
WI-7743b	275 CT		;	GGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCCAGCTCTCAGCCAACG
$\overline{}$				TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAGG
				GTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGAC[C/A]CCAGGAGTCCCTGGTAATAAGTACT
				GTGTACAGAATTCTGCTACCTCACTGGGGTCCTGGGGCCTCGGAGCCTCATCCGAGGCAGGGGTCAGGA
WI-7743	106 CA		1	GAGGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCTCTCAGCC
				TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAGG
-				GTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCCAGGAGTCCCTGGTAATAAGTACTGT
				TACAGAATTCTGCTACCTCACTGGGGTCCTGGGGCCTCGGAGCCTCATCCGAGGCAGGGICAGGAGA
WI-7743	275 C		•	GGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCCAGCTCTCAGCCAACG
				TGACATTTATTCAAAGTTAAAAGCAAACACTTACAGAATTATGAAGAGGTATCTGTTTAACATTTCC
				TCAGTCAAGTTCAGAGTCTTCAGAGACTTCGTAATTAAAGGAACAGAGTGAGAGACATCATCAAGTG
				GAGAGAAATC[A/G]TAGTTTAAACTGCATTATAAATTTTTATAACAGAATTAAAAGTAGAIIIIAAAA
WI-7758	144 A G	<u>:</u>	:	GATAAAATGTGTAATTTTGTTTATATTTTCCCATTTGGACTGTAACTGACTG

	() ()		ACAGGGCCTTTGGCAGGTGCAGCCCCCACTGGCGTTTGACCTGCCTTCATGCATG
000//-144			TTAATTTACTGATTCCAGCAAGACCAAATCATTGTATCAGATTATTTTAAGTTTTTATCCGTAGTTTT
WI-7773b 2	237 C G	<u>:</u>	GACTAGGGTTCATGTTTTTACCCTTTNNNNNNTTGTAAAAGTCTAGTTACCTACTTTTCTTT GACTAGGGTTGACTAGCCATCTCAAGCAACCGTTTCGACGTTTGA
			TGCAACCTCTTTCGTGATGGGCAGCCTGCTGGTCAGCACTCCAGTAGCGAGAGACGGCACAGAATCCAGATCCCAGAGAGAAACAGTGCTGTTTTCAAACAGTGCTGTTTCCCGGGGAGGAAACACTTTTTAA
WI-7774b	170 T C		TTACCCTTTTGCAGGCACCACCTTTAATCTGTTT[T/CJATACCTTGCTTATTAAATGAGCGACTTAAA ATGATTGAAAATAAAAATGTGCTTTGCTT
			GCAGAGACCTTCCAAGGACATATTGCAGGATTCTGTAATAGTGAACATATGGAAAGGTATTAGAAATA TTTATTGTCTGTAAATACTGTAAATGCATTGGAATAAAACTGTCTCCCCCATTGCTCTATGAAACTGC ACATTGGTCATTGTGAATANNNNNNNNNNNNNNNNNNNNN
WI-7785c 1	165 G	,	TAATITAITITIGICCATTGATGTATITTGTAAATGTATCTTGGTGCTGC
WI-7785b	 65 6	1	GCAGAGACCTICCAAGGACATATTGCAGGATTCTGTAATAGTGAACATATGGAAAGTATTAGAAATA TTTATTGTCTGTAAATACTGTAAATGCATTGGAATAAAACTGTCTCCCCCATTGCTCTATGAAACTGC ACATTGGTCATTGTGAATANNINNINNINNINGCCAAGGCTAATCCAATTATTATCACATTTACCA TAATTTATTTGTCCATTGATGTATTTATTTTGTAAAATGTATCTTGGTGCTGC
	·		GCAGAGACCTTCCAAGGACATATTGCAGGATTCTGTAATAGTGAACATATGGAAAGTATTAGAAATA TTTATTGTCTGTAAATACTGTAAATGCATTGGAATAAAACTGTCTCCCCCATTGCTCTATGAAACTGC
7785	F W		ACATTGGTCATTGTGAATANNI- // INNNNNNNNNCCAAGGCTAATCCAATTATTATCACATTTACCATAATTTATTGTCCATTGA // INNNNNNNNNNCCAAGGCTAATCCAATTATTATTATCACATTTACCATAATTTATTTGTCCATTGA // INSTATTATTTGTAAATGTATCTTGGTG
:	1		TCTCCCCCTCATCCAACTCCGAAAGTCTGAATCTCCCAAGGAGGCACCATCTTACAGAGACTCTCCC TGACGGTGGAATTTAA(G/A)TTAGGGTCCCTAAAAGCATTTGACACACAGTTGTTGAATGACTGAC
WI-7789c	84 GA	•	GCCCTCCTGGTGGGCTGTCTCAGACGACTAGCCCAGGACCATCT
			TCTCCCCCTCATCCAACTCCGAAAGTCTGAATCTCCCAAGGGGCACCATCTTACAGAGGACTCTCCC TGACGGTGGAATTTAA(G/A)TTTAGGGTCCCTAAAAGCATTTGACACACAGTTGTTGAATGACTGAC
WI-7789b	84 G A	<u>.</u>	CCAAAATGTGAATGAAGCTAATGTGAATGTGAGTGAAGCTCCCTTCAGGCCCGCTGCCCTAGGATAT GCCCTCCTGGTGACTCGGGGGCTGTCTCAGACGACTAGCCCAGGACCCATCT

				TCTCCCCTCATCCAACTCCGAAAGTCTCGAATCTCCCAAGGGGCCACCATCTTACAGAGACTCTCCCC
				TGACG(G/A)TGGAATTTAAGTTTAGGGTCCCTAAAAGCATTTGACACACAGTTGTTGAATGACTGAC
WI-7789	73 GA			CCAAAATGTGAATGAAAGCTAATGTGAATGTGAGGTGAAGCTCCCTTCAGGCCCGCTGCCTAGGATAT GCCCTCCTGGTGACTCGGGGGGCTGTCTCAGACGACTAGCCCAGGACCCATCT
				AATTGTCAGTCACTTCTACAAACCTTACAGTCCTTCCTAAGGTTACTCTTCATGAGATTCATCCATT
				TACTAATACTGTATTTTTGGTGGACTAGGCTTGCCTATGTGCTTATGTGTAGCTTTTTATGG TGTGATTAATGGTGATCAAGGTAGGAAAAGTTGTGTTGT
WI-7790b	190 CT	i		AAGATACTCTATTTTAAAACACTATCTGCAAACTCAGGACACTTTAAC
				AATTGTCAGTCACTTCTTCAAAACCTTACAGTCCTTCCTAAGGTTACTCTTCATGAGATTCATCCATT
				TACTAATACTGTATTTTTGGTGGACTAGGCTTGCCTATGTGCTTATGTGTAGCTTTTTACTTTTTATGG
WI-7790	190 CT	:	i	TGTGATTAATGGTGATCAAGGTAGGAAAAGTTGTGTTTTTTTT
				CAGATETICTGGTAAACTGATTGCTGGCAACAACAGATTCTCTTGGCTCATATTTCTTTC
				CTTGATGATGC/AJGTCATCAAGAATTTAATGATTAAAATAGCATGCCTTTCTCTCTTTCTCT
				TAATAAGCCCACATATAAATGTACTTTTCTTCCAGAAAAATTCTCCTTGAGGAAAAATGTCCAAAA
WI-7795b	81 CA		:	TAAGATGAATCACTTAATACCGTATCTTCTAAATTTGAAATATAATTCTG
				CAGATGTTCTGGTAAACTGATTGCTGGCAACAACAGATTCTCTTGGCTCATATTTCTTTTCTTTC
				CTTGATGATGAT[C/A]GTCATCATCAAGAATTTAATGATTAAAAATAGCATGCCTTTCTCTCTTTCTCT
1A11 770E				TAATAAGCCCACATATAAATGTACTTTTTCTTCCAGAAAAATTCTCCTTGAGGAAAAATGTCCAAAA
C6//-IM	کا م			AAGA GAA CACIIAA ACCGIAICIICIAAA IIGAAAIAIAAIICIG
				TTCTCTCTCATTITTATCCCTCACCTGTAGCATGCCAGTCCC[G/AJTTTCATTTAGTCATGTGACCACTC
				TGTCTTGTGTTTCCACAGCCTGCAAGTTCAGTCCAGGATGCTAACATCTAAAAATAGACTTAAATCTC
				ATTGCTTACAAGCCTAAGAATCTTTAGAGAAGTATACATAAGTTTAGGATAAAATAATGGGATTTTC
WI-7814c	41 GA			TTTCTTTCTCTGGTAATATTGACTTGTATTTTAAGAAATAACAGAA
				TTCTCTCTCATTTTATCCCTCACCTGTAGCATGCCAGTCCC[G/A]TTTCATTTAGTCATGTGACCACTC
				TGTCTTGTGTTTCCACAGGCCTGCAAGTTCAGTCCAGGATGCTAACATCTAAAAATAGACTTAAATCTC
				ATTGCTTACAAGCCTAAGAATCTTTAGAGAAGTATACATAAGTTTAGGATAAAATAATGGGATTTTC
WI-7814b	41 GA	•	•	TITICITITICTCTGGTAATATTGACTTGTATTITTAAGAAATAACAGAA
				TTCTCTCTCATTTTATCCCTCACCTGTA[G/A]CATGCCAGTCCCGTTTCATTTAGTCATGTGACCACTC
				TGTCTTGTGTTTCCACAGGCCTGCAAGTTCAGTCCAGGATGCTAACATCTAAAAATAGACTTAAATCTC
				ATTGCTTACAAGCCTAAGAATCTTTAGAGAAGTATACATAAGTTTAGGATAAAATAATGGGATTTTC
WI-7814	28 G A			TTTTCTTTTCTCTGGTAATATTGACTTGTATTTTAAGAAATAACAGAA

			GCAGGAAATAGTCACTCACCACTCCACATAAGGGGTTTAGTAAGAGAAGTCTGTCT
WI-7830d	150 CT	į	ATCCATAACTITAGT[C/I]ITAATGTACACATIGCATTITGATAAAATTAATTITGTTGTTTCCTTTG
	-		GCAGGAAATAGTCACTCATCCCACTCCACATAAGGGGTTTAGTAAGAGAAGTCT[G/AJTCTGTCTGA TGATGGATAGGGGGCAAATCTTTTCCCCTTTCTGTTAATAGTCATCATTCTATGCAAACATTTTCCAAAACATTTCAAAAAAAA
WI-7830c	54 GA		ACGATCCATAACTTTAGTCTTAATGTACACATTGCATTTTGATAAAATTAATT
			GCAGGAAATAGTCACTCCACCTCCACATAAGGGGTTTAGTAAGAGAAGTCTGTCT
WI-7830b	134 G A	:	G/AJATCCATAACTITAGTCTTAATGTACACATTGCATTTTGATAAAATTAATTITGTTGTTTCCTTTG AGGTTGATCGTTGTTTTTGCTGCACTTTTTACTTTTTTGCGTGTGGA
			GCAGGAAATAGTCACTCCACTCCACATAAGGGGGTTTAGTA[A/G]GAGAAGTCTGTCTGTCTGA TCATCCATAGGGGGCAAAATCTTTTTTCCTGTTAATAGTCATCATGAGAAGAGGGAACAGGAACAGGAAACAAGAACAGGAAACAAC
WI-7830	44 A G		ACGATCCATAACTTTAGTCTTAATGTACACTTTTGCATTTTGTAAAATTAATT
			CCACTTCCTATCTGATTTTTCCCAG[C/TJAAATGAGGCAGGCAATTCTAGTCTTCCACAAAACATCTAGAGGGTGGTTGGGCATCTAAAATGGAGAGATGAATCATTCTACCTATACAAACAA
WI-7865e	25 CT		GGTATGCTACTCATAAGATTTCAGGGTGTCTTCCAACTGAAATCTCCAATGTTCTCAGTACGAAAAACCGAAATCACATCACATGCCTATGTAAGGAAAGTGCTATTCACCCAGTAAACCCAAA
			CCACTTCCTATCTGATTTTTCCCAGCAAATGAGGCAGGCA
WI-7865d	191 CT		CTGAAATCACATGCCTATGTAAGGAAAGTGCTATTCACCCAGTAAACCCAAA
			CCACTICCTATCTGATTTTTCCCAG[C/TJAAATGAGGCAGGCAATTCTAGTCTTCCACAAAACTAAAATGGAGAGATGAAATCATTCTACCTATACAAAAGCAAGC
WI-7865c	25 C T	•	GGTATGCTACTCATAAGATTTCAGGGTGTCTTCCAACTGAAATCTCAATGTTCTCAGTACGAAAAACCTGAAATCACCAAAAAC
			CCACTTCCTATCTGATTTTTCCCAGCAAATGAGGCAGGCA
			ATCTAAAATGGAGAGATGAATCATTCTACCTATACAAACAA
WI-7865b 191	191 CIT	;	CTGAAATCACATGCCTATGTAAGGAAAGTGCTATTCACCCAGTAAACCCAAA

			X L C L X C X X X C C C C L C L C L C L
			CCACTTCCTATCTGATTTTTCCCAG C/TJAAA1GAGGCAGGCAA
WI.7865	7. CT		GGTATGCTACTCATAAGATTTCAGGGTGTCTTCCAACTGAAATCTCAATGTTCTCAGTACGAAAAAC
			CCACTICCTATCTGATTTTTCCCAGCAAATGAGGCAGGCAATTCTAGTCTTCCACAAAACATCTAGCC
		_	ATCTAAAATGGAGAGATGATCATTCTACCTATACAAACAA
1MI 70GE	F (ATGCTACTCATAAGATTTCAGGGTGTCTTCCAACTGAAATCTCAATGTTCTCAGTA[C/I]GAAAAAC CTGAAATCACATGCCTATGTAAGGAAAGTGCTATTCACCCAGTAAACCCAAA
)		TTCAAACAACTGTCTTCCACCTCCCACCATCTGTGCAATCACTTCACCCTTCAGCCTCACTAGTCCC
			CTAACAATTACCCTGTCAAGAGGAVCJGAGTGCAGCTCAGGTGGATTTAATGTGGGTTTAATATGGC
			CTGTTGAGTTTAATGTTTAATGTTTGATTTTCTTTAAGTAACCATTTCTGTTCTTGCTATAAATCTATGT
WI-7867c	92 A C		CTATATGTCTATGCTTAATTTGGATGAAGGCAACTTGGATTTAAGG
			TTCAAACACCTGTCTTCCACCCTCCCACCATCTGTGCAATCACTTCACCCTTCAGCCTCACTAGTCCCC
			CTAACAATTACCCTGTCAAGAGG[A/C]GAGTGCAGCTCAGGTGGATTTAATGTGGGTTTAATATGGGC
			CTGTTGAGTTTAATGTTTAATGTTTGTTTTCTTTAAGTAACCATTTCTGTTCTTGCTATAAATCTATGT
WI-7867b	92 A C	-	CTATATGTCTATGCTTAATTTGGATGATGAAGGCAACTTGGATTTAAGG
			TTGATOGATOTTTTCCCACCCTGTCACTCAACGTGGTCCCTAGAACAAGAGGCTTAAAAACCGGGCTTT
			CACCCAACCTGCTCCCTCTGATCCTCCATCAGGGCCAGATCTTCCACGTCTCCATCTCAGTACAGAAT
			CATTTAATATTTCCCTGTCTTACCCCTATTCAAGCAA(C/TJTAGAGGCCAGAAAATGGGCAAATTAT
WI-7868c	173 CT	•	CACTAACAGGTCTTTGACTCAGGTTCCAGTAGTTCATTCTAATGCCTAGAT
			TTGATCGATCTTTTCCCACCCTGTCACTCAACGTGGTCCCTAGAACAAGAGGCTTAAAAACCGGGCTTT
			CACCCAACCTGCTCCCTCTGATCCTCCATCAGGGCCAGATCTTCCACGTCTCCATCTCAGTACACAAT
			CATTTAATATTTCCCTGTCTTACCCCTATTCAAGCAA(C/TJTAGAGGCCAGAAAATGGGCAAATTAT
WI-7868b	173 CT		CACTAACAGGTCTTTGACTCAGGTTCCAGTAGTTCTAATGCCTAGAT
			TTGATCGATCTTTTCCCACCCTGTCACTCAACGTGGTCCCTAGAACAAGAGGCTTAAAAACCGGGCTTT
			/cjtcacccaacctgctccctctgatcctccatcagggccagatcttccacgtctccatctcagtacac
			AATCATITAATATITCCCTGTCTTACCCCTATTCAAGCAACTAGAGGCCAGAAAATGGGCAAATTAT
WI-7868	66 T C	•	CACTAACAGGTCTTTGACTCAGGTTCCAGTAGTTCATTCTAATGCCTAGAT
			ATCTTTGCTCCCTGCAAGAAATCAGCCATAAGAAAGCACTATTAATACTCTGCAGTGATTAGAAGGG
			GTGGGGTGGCGGGAATCC[T/CJATTTATCAGACTCTGTAATTGAATATAAATGTTTTACTCAGAGGA
			GCTGCAAATTGCCTGCAAAATGAAATCCAATGAGCACTAGAATATTTAAAACATCATTACTGCCAT
WI-7870b	85 T C	•	CTTTATCATGAAGCACATCAATTACAAGCTGTAGACCACCTAATATCAATTTG

			ATCTICCICCACAATCACCATAACACACTATAATAATACTCTCACTACT
			GTGGGGTGG[C/T]GGGATCCTATTTATCAGACTCTGTAATTGAATATAAATGTTTTACTCAGAGGAG
WI-7870	7607	•	CTGCAAATTGCCTGCAAAAATGAAATCCAATGAGCACTAGAATATTTAAAACATCATTACTGCCATC
			TTAGGTCTCATGCCCACTCCCCCAGGAGCAGCTGGCACTGACAGCCTGGGGGGGG
			CAGCCGTGCAGGACTCTAGCTCATGAGTGGAAAGTCACCTACAGGACTGGGCCGGGCCCAGGGCCTCT
WI-7889c	54 C	4 9 7	GGCTTCCCTGCCCAATCCTCCCTGGAGAGGGACATGGGAATGAAT
			TTAGGTCTCATGCCCACTCCCCCAGGAGCAGCTGGCACTGACAGCCTGGGGGGGG
			CAGCCGTGCAGGACTCTAGCTCATGAGTGGAAAGTCACCTACAGGACTGGGCCGGGCCCAGGGCCTCT
WI-7889b	54 C		GGCTTCCCTGCCCAATCCTCCCTGGAGAAGGGGACATGGGAATTGAAATTGGGGCGCTGGACACC
			AGCCCACCCCAAATATAACTGTTATCCAGAAGCTGTTATGTCCTGTTTCCATACATGTTTTTGTACT
			TITACTATATCTACATACATCAATTAAACTTATGTCCTATTGTTTTGTGAATTTATATTTGCGTATAC
WI-7894c	142 A G	į	ATTATC(A/G)TATGTAAAATTTGCATTTTTTATTGAAAATTATGTTTCTTGAGATTTATCCACATTG
+			AGCCCACCCCAAATATAACTGTTATCCAGAAGCTGTTATGTCCTGTTTACGTACATACA
			TTACTATATCTACATCAATTAAACTTATGTCCTATTGTTTTGTGAATTTATATTTGCGTATAC
			ATTATC(A/G)TATGTAAAATTTGCATTTTTTATTGAAAATTATGTTTCTTGAGATTTATCCACATTG
WI-7894b	142 A G	:	AAACATGGAGCTCTAAATCGTTAATTTTAACCGCTATAGAGTATTCCATA
			GCTCACTGTGACCCATCCTTACTTGGCCAGGCCACAGTAAAACAAGTGACCTTCAGAGCAGCT
			GCCACAACTGGCCATG(C/T)CCTGCCATTGAAACAGTGATTAAGTTTGATCAAGCCATGGTGACCA
WI-7900e	84 CT	;	AAAA I GCA I I GA I CA I GAA I AGGA GCCCA I GC I AGAA GI ACA I I CI CO I CA GAA I I GAACCA GAAAA GAAAA
			GCTCACTGTGACCCATCCTTACTCTTGGCCAGGCCACAGTAAAACAAGTGACCTTCAGAGCAGCT
			GCCACAACTGGCCATGCCCTGCCATTGAAACAGTGATTAAGTTTGATCAAGCCATGGTGA[C/T]ACA
WI-7900A	- L		AAAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCTCTCAGATTTGAACCAGTGAAA TATGATGTATTCTGAGGTAAAACTCAACTTAAAAACTTAAAAAATC
			יייייייייייייייייייייייייייייייייייייי
			GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCA
			GCCACAACTGGCCATGC/TJCCTGCCATTGAAACAGTGATTAAGTTTGATCAAGCCATGGTGACACA
			AAAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCTCTCAGATTTGAACCAGTGAAA
WI-7900e	84!C:T:		TATGATGTATTTCTGAGCTAAAACTCAACTATAGAAGACATTAAAAAGAAATC

			GCCACACTGTGACCCATCCTTACTTGGCCAGGCCACAGTAAAACAAGTGACCTTCAGAGCAGCT GCCACACACTGGCCATGCCCTTGAAACAGTGATTAAGTTTGATCAAGCCATGGTGATCAAGCCATGAAGCATGAAACAGTGAATAAGTTTGAAAGCATGAAGCAAAAAAAA
P0062-IM	128 C T	•	AAAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCTCAGATTTGAACCAGTTAAAAGAAATC
			GCTCACTGTGGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAAACAAGTGACCTTCAGAGCAGCT
			GCCACACTIGGCCATG[OT] CCTGCCATGCTAGAGCAGTTT AAGTTT CAAGCCATGCAGAAAAAAAATGCATTGCAT
WI-7900e	84 C T		TATGATGTATTTCTGAGCTAAAACTCAACTATAGAAGACATTAAAAGAAATC
			GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCA
7000A			AAAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCTCTCAGATTTGAACCAGTGAAAATGATTTCTGAGCTAAAAGCTCAACTATAGAAGACATTAAAAAGAAATC
DOGE /-IAA	000		COTO A CATALOGO A TANATATA TANATA TANATA A A A CA A GA TA A A CA A GA TA A GA
			GCCACAACTGGCCATGIC/TICCTGCCATTGAAACAGTGATTAAGTTTGATCAAGCCATGGTGACACA
			AAAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCTCTCAGATTTGAACCAGTGAAA
WI-7900c	84 C T	-	TATGATGTATTTCTGAGCTAAAACTCAACTATAGAAGACATTAAAAGAAATC
			GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCA
			GCCACAACTGGCCATGCCCTGCCATTGAAACAGTGATTAAGTTTGATCAAGCCATGGIGAIC/IJACA
10000	H C		AAAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTGATGAATTCTCAGATTGAACCTAAAAGAAGACATTAAAAAGAAATC
q0067-IW	128 C		IAIGAIGIAIII O IGAGO IAAAAO CAAO IAIAAAA
			GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCA
			GCCACAACTGGCCATGGCTGGCTGCCATGCTAGGAGTACATTCTCTCAGGATTTGAACAGTGAAA
WI-7900	84 C.T	_ :	TATGATGTATTCTGAGCTAAAACTCCAACTATAGAAGGACATTAAAAGGAAATC
			AGACTTAGGTACAATTGCTCCCCTTTTTATATA[C/T]AGACACACACAGGACACATATATAAAACAG
			ATTGTTTCATCATTGCATCTATTTTCCATATAGTCATCAAGAGACCATTTTATAAAACATGGTAAGAC
			CCTTTTAAAACAAACTCCAGGCCCTTGGTTGCGGGTCGCTGGGTTATTGGGGGCAGCGCCGTGGTCGT
WI-7901c	33 C T		CACTCAGTCGCTCTGCATGCTCTTGTCATACAGACAGGTAACCTAGTTCT
			AGACTTAGGTACAATTGCTCCCCTTTTTATATA(C/TJAGACACACAGAGACACATATATAAACAG
			ATTGTTTCATCATTGCATCTATTTTCCATATAGTCATCAAGAGACCATTTTATAAAACATGGTAAGAC
			CCTTITIAAAACAAACICCAGGCCCTTGGTTGCGGGTCGCTGGGTTATTGGGGGCAGCGCCGTGGTCGT
WI-7901b	33 C T	•	CACTCAGTCGCTCTGCATGCTCTGTCATACAGACAGGTAACCTAGTTCT

			AGACTTAGGTACAATTGCTCCCCTTTTATATA[C/T]AGACACACACAGGACACATATATTAAACAG ATTGTTTCATCATTGCATCTATTTCCATATAGTCATCAAGAGACCATTTTATAAAACATGGTAAGAC
WI-7901	33 C	:	CCTTTTAAAACAAACTCCAGGCCCTTGGTTGCGGGTCGCTGGGTTATTGGGGGCAGCGCCGTGGTCGT
2			AGACTTAGGTACAATTGCTCCCCTTTTTATATACAGACACACAC
			GTTTCATCATTGCATCTATTTTCCATATAGTCATCAAGAGACCATTTTATAAAACATGGTAAGACCCT
WI-7901	2711T G		TCAGTCGCTCTGCATGCTCTGTGTACAGACAGGTAACCTAGTTCTGTGT
			CATTCCGCATCTGTCAACCAGGACAGAAAGCATGGACAAGGGATGAGCTTTACAAAGATGATGCACT
			TTGGAGATCAGAAATTCATATTTAAGCAAAGTGATACAAACACAGTGATTTGGGAATGCCTTCATT
	< C	1	TACAATGCAATACTTA[G/A]ATTTTAATACTCTTGTAGGAGAATACCTGTGGGAA
2028/-14			
			CATTCCGCATCTGTCAACCAGGACAGAA/NJGCATGGACAAGGGATGAGCTTTACAAAGATGGTG ACTTTGGAGATCAGAAAATTCATATTTAAGCAAAGTGATACAAACACAGTGATTTGGGAATGCCTTC
			ATTTACAATGCAATACTTACATTTTAATACTCTTGTAGGAGAAAAAGCAACTGTATAAATGAATG
WI-7926b	28 A T		GAGTGACTTTCTGCAATATTTGCAACCTATATCAGAGAATTACACTGTGGGAA
			CATTCCGCATCTGTCAACCAGGACAGAAAGCATGGACAAGGGATGAGCTTTACAAAGATGATGCACT
			TTGGAGATCAGAAAATTCATATTTAAGCAAAGTGATACAAACACAGTGATTTGGGAATGCCTTCATT
			TACAATGCAATACTTA[C/A]ATTTTAATACTCTTGTAGGAGAAAAAGCAACTGTATAAA1GAA1G1A
WI-7926	150 C A		GAGTGACTTTCTGCAATATTTGCAACCTATATCAGAGAATTACACTGTGGGAA
			AAGAGCCAGCAGGTCAAAAAGGCCAACACAACATAAGCAGCCAGACCCACAAGGCCAGGTCCTGT
			GCTATCACAGGGTCACCTCTTTTACAGTTAGAAACACCAGCGAGGCCACAGAATCCCATTCC
		-	TGAGTCATGGCCTCAAAAATCAGGGCCACCATTGTCTCAATTCAAATCCATAGATTTCGAAGCCACA
WI-7947b	203 GT		GA[G/T]TCTCTCCCTGGAGCAGCAGACTATGGGCAGCCCAGTGCTGCCACCTG
			AAGAGCCAGCAGGTCAAAAAGGCCAACACAACCATAAGCAGCCAGACCCACAAGGCCAGGTCCTGT
			GCTATCACAGGGTCACCTCTTTTACAGTTAGAAACACCAGGCGGAGGCCACAGAATCCCATTCC
			TGAGTCATGGCCTCAAAAATCAGGGCCACCATTGTCTCAATTCAAATCCATAGATTICGAAGCCACA
WI-7947	203 GT		GA[G/T]TCTCTCCCTGGAGCAGCAGACTATGGGCAGCCCAGTGCTGCCACCTG
			CATGTGCTGCATGAAGAGCTAATTTAAAAAAGCAAAGTAAGAACTAATTATTAAAAATAAAATGCC
			ACAAATITCATITICICCTICTAAGTATTACAATGGAGTTTATTCTCTGCCTAAAAAGTGGAAGAAAT
			TGAGTGAATGA[T/C]AATTTTGTAATTTAGGATAAGATCCAAGTTATTTTCCCCAACTCTTGTTTCCC
WI-7963b	145 T C	•	CCATAAAGTTAGGCATGAGGAGGAGCACTCATTAAAGGCAGAAGACGGAAAA

			GGAGTTCTGGTTCCTACTGGGGGCAACCTGGTGACCAGCACCATCTCTCCTCCTTTTCACAGTTCTCTT CCTTCTTCCCCCCGCTGTCAGCCATTCCTGTTCCCATGAGATGATGATGATGCCATGGGTCTCAGCAGGGGAGG
	C		GTAGAGCGGAGAAAGGAAGGCAAGCATGCGGGCTTCCTCCTGGTGTGGAAGAGAGCTCCTTGATATCCT
WI-79/20	50802		GENERAL GARGETT CTACT GENERAL CONVENTION OF THE CONTROLL OF THE CONTROLL OF THE CONTROLL OF THE CONTROL OF THE
			CCTTCTTCCCCCCGCTGTCAGCCATTCCTGTTCCCATGAGATGATGCCATGGGTCTCAGCAGGGGAGG
			GTAGAGCGGAGAAAGGAAGGGCAGCATGCGGGCTTCCTCCTGGTGTGGAAGAGCTCCTTGATATCCT
WI-7972b	268 T G	;	CTTTGAGTGAAGCTGGGAGAACCAAAAAGAGGCTATGTGAGCACAAAGGTA
			GGAGTTCTGGTTCCTACTGGGGGCAACCCTGGTGACCAGCACCATCTCTCCTCCTTTTCACAGTTCTCT
			CCTICTTCCCCCCGCTGTCAGCCATTCCTGTTCCCATGAGATGATGCCATGGGTCTCAGCAGGGGAGG
			GTAGAGCGGAGAAAGGAAGGCAGCATGCGGGCTTCCTCCTGGTGTGGAAGAGCTCCTTGATATCCT
WI-7972	268 T G		CTTTGAGTGAAGCTGGGAGAACCAAAAAGAGGCTATGTGAGCACAAAGGTA
			AACCCCTGAAATCGGAAGGGACTTCCTCTTTCTCTCCTTCTTCCCTGTTTTAAATTATAAGATGTCAT
•			CCCCTTGTGTCAGAGACAGACCCCTTGGCTTTGCTTGGCAGAGAGGACCCCACTGGACTGGGTTTTG
			TCTCTGCATCTCATTGTAGAGCTTGGTGGCTGAGCTTGGCCCTATTAAGATAAATAGAGTTCCAAATA
WI-7981	261 T G		AGGATITGTTCACATGCATCATAACCATTCCCATTGGTTCTCCTAAAACAT
			GAGCTTCCACAGTGAAGATGGAGAAGGTGAACTTGCTTTGAATATNCCAGATTTGTTTGGTC[A/G]T
			GCGTATGGCAGTGAGCAGGTATGTTTTCTTTTCACGAAAATTAAATTGCTATCAAGAGCAAAC
			TATGAACATTATATTCAAGATGTCTCCAGAGTGAAGATGCCGAGGATGAACTTGCATTGAACATTCC
WI-7992b	62 A G	•	AGATGTGTGAGATCATGTGTATTGCAGTGGGCAGGTATTTGCTTTGCTTGC
			GAGCTTCCACAGTGAAGATGGAGAAGGTGAACTTGCTTTGAATATNCCAGATTTGTTTGGTC[A/G]T
			GCGTATGGCAGTGAGCAGGTATGTGTTTCTTTCACGAAAATTAAATTGCTATCAAGAGCAAAC
			TATGAACATTATATTCAAGATGTCTCCAGAGTGAAGATGCCGAGGATGAACTTGCATTGAACATTCC
WI-7992	62 A G		AGATGTGTGAGATCATGTGTATTGCAGTGGGCAGGTATTTGCTTTGCTTGC
			ACTAAGAAATTATTTATTGGTGGCCTATAAAACTCTGTTCAGTCTTTACCTTGCTAATGATTTATTT
			CATTAVAGTAAATGATCATCTTTGGGGAGGCATTTTATAAAAACATATTTAGGAGAAATTTCTTTGA
			TTTATGCTATAAGGTAAATGTTGCATAATTTCTTGCCTATGTGAATTG[C/T]AGGTTTCCACTTTGAG
WI-8004b	183 C T		AGAATTCTCTCAATCTAATAATAAGACCAAGGGCCAGAAACACTAAGATA
			ACAATCTCAGAAGGACTGTGCAAGTCAATGAGTCGCTTGTGAATTCTCATCTGGAAA(C/T)GATCCC
			ACGTCTTAGAACCTTCACCACAAGGAGTTTTTCTTGTAGTGATTCTCAAAGTCTTGGTAGGCATTCGA
			ACTGGTCCTTTCACTTTGAGATTCTTTTCTTTTGCGCCTCTTATCAAGTCAGCACACACCCTTTTCCAAG
WI-8021c	57 C T		GATTITACGITGCGGCTTGTTAGGGGGTGATTCGATTCGGTGAATTGCCA

				ACAATCTCAGAAGGACTGTGCAAGTCAATGAGTTGTGAATTCTCATCTGGAAA[C/T]GATCCC
				ACGTCTTAGAACCTTCACCACAAGGAGTTTTTCTTGTAGTGATTCTCAAAGTCTTGGTAGGCATTCCAAAGTCTTGGTAGGCACTTTGCAAGTCTTTTGCAAGTCATTATCAAGTCAGGACACACAC
WI-8021b	57 C	<u></u>	•	GATTITACGITGCGGCTTGTTAGGGGTGATTCGATTCGGTGAATTGCCA
				ACAATCTCAGAAGGACTGTGCAAGTCAATGAGTCGCTTGTGAATTCTCATCTGGAAA[C/T]GATCCC
, COO	1	F		ACTGGTCCTTTCACTTTGAGATTCTTTTTGCGCCTCTTATCAAGTCAGCACACACA
1700-144) 			CONTINUES DE LA CONTINUE DE LA CONTI
				GCTTGTATTCAGGAGGACAGGGCAGAGGATCCCAGTGGCACTTCCCATGGGAAGAGAGAG
				GGGCCCCAGAGATGGAAGGACCCCAGTGTCATCACCAAACAACCATTTCAGCCGCTCTAGCCTCTAA
WI-8024c	206 A	<u></u>		TTCCCIAGICTCTAGAACAGCTGGCCCTGGTCGTCAGTACACAAGGAAAGAGC
				CTGAAAAATTTACTATGCTCTCCACAAGAGCTCCCATTTTCCACAGACACAGACAG
				GELTETATICAGGAGGAGGAGGAGGAGGGGATGTCATCAGGAACAACAACCATTTCAGCCGCTCTAGCCTCTAA
WI-8024b	206 A	:: 0	- 1	TTCCC[A/G]CTCTAGAACAGCTGGCCCTGGTCGTCAGTACACAAGGAAAGAGC
				GAATGAGCCTTCCTAGCGCCGAGGGACCTGCTGTTGTTGGCCTGCACATGCATTCTATGGAATGC
				TTTTTGGCCAAGGGGGGGCACTGAGGACTAAGCTCTGANNNNNNNNNN
				AAGGAGTCTGGGGTGTCATGCCCTACAAACC[A/G]TAAATTCTCATCAGATGGATTTTATTTAACGTT
WI-8077	167 A			GTGTATTGTGACTTACTTTCCAATCTGACTCTGGCATAACAAGGGAAAAA
				TCTAGGTTTAATCAAAGCAATTTGCANTTTGGATTTTGGAATGACCACTCCCTTGCTAAGGAAGCTAT
				GTACTTCATGCTGTGGAAACTGGCAAATACAGAATGTAGCTTGTTT[G/C]TTTTCTTAGCCTTGAAGA
				TGACCAGGTAGAGAGACAGAGTGAGACCAACAGTTTTCTGATTTCCCTGCTCCTGTTTTCTTTTCTT
WI-8118f	114 G	 O		AAAAATCAGACTCATTGTGACCAGTAGTCTTGAGGACTCAAGCTGAATGA
				TCTAGGTTTAATCAAAGCAATTTGCANTTTGGATTTTGGA[A/G]TGACCACTCCCTTGCTAAGGAAGC
				TATGTACTTCATGCTGTGGAAACTGGCAAATACAGAATGTAGCTTGTTTGT
				TGACCAGGTAGAGAGACAGAGTGAGACCAACAGTTTTCTGATTTCCCTGCTCCTCCTATTCCTTCC
WI-8118e	40 A	<u>o</u>	•	AAAAATCAGACTCATTGTGACCAGTAGTCTTGAGGACTCAAGCTGAATGA
				TCTAGGTTTAATCAAAGCAATTTGCANTTTGGATTTTGGAATGACCACTCCCTTGCTAAGGAAGCTAT
****				GTACTTCATGCTGTGGAAACTGGCAAATACAGAATGTAGCTTGTTTGT
	-			TGACCAGGTAGAGAGAGAGAGTGAGACCAACAGTTTTTCTGATTTCCCTGCTCCTACTATTCCTTCC
WI-8118d 118T G	1181	 		AAAAATCAGACTCATTGTGACCAGTAGTCTTGAGGACTCAAGCTGAATGA

				TCTAGGTTTAATCAAAGCAATTTGCANTTTGGATTTTGGAATGA(C/TJCACTCCCTTGCTAAGGAAGC)
WI-8118c	44 CT	•	}	TGACCAGGTAGAGAGAGAGAGGACCAACAGTTTTTCTGATTTCCCTGCTCCTCTATTCCTTCC
				TCTAGGTTTAATCAAAGCAATTTGCANTTTGGATTTTTGGAATGACCACTCCCTTGCTAAGGAAGCTATGTATCATGGTTGTTTTCTTAGCCTTGAAGA
WI-8118b	88 T	ļ		TGACCAGGTAGAGAGAGAGAGTGAGACCAACAGTTTTTCTGATTTCCCTGCTCCTCCTATTCCTTCC
				TTTCTCTCCTTCCGGGGGACCAAGGTACCTTCTGGGGCATACAACATGGCAGGCGGGGCCTCGGGAAGAAGGAAG
WI-8171d	299 CT			TTTATGGAGGGTTGTCCCTGAAGAGAGAGGGCAGGTGGGGAGAGGTTCCCTGTTACTTAAGAGAGGC ACCAGTGGGCAAAGAGCACAATGAAGAGGATGATGATAAAAACAATCACGGCA
				TTTTCTCTCTCCGGGGGGACCAAGGTACCTTCTGGGGCATACAAC[A/G]TGGCAGCAGGGGCCTCGGG
WI-8171c	46 A G	ļ		ACATTTATGGAGGGTTGTCCCTGAAGAGGGCCAGGTGGGGAGAGGTTCCCTGTTACTTAAGAGAA GGCACCAGTGGGCAAAGAGGCACAATGAAGAGGATGATGATAAAAAACAATCAC
				TTTTCTCTCCTTCCGGGGGGACCAAGGTACCTTCTGGGGGCATACAACĮA/GJTGGCAGCAGGGGGCCTCGGGGAAGGGGGGTAGGAGGGGAGCCGCTCTTGGCACCAGGAAGGGGAAAGGGAGAGAGA
WI-8171a	46 A G	1		GGCACCAGTGGGCAAAGAGCACAATGAAGAGGATGATGATAAAAAACAATCAC
WI-8171b	298 T C	ļ	!	TTTTCTCTCCTTCCGGGGGACCAAGGTACCTTCTGGGGCATACAACATGGCAGCAGGGCCTCGGGAAGAGGGGTAGGAGGAGGAGGAGGAGGGAG
	i			GAGGGGAAATGACATCTGGAGATCTAGGTATGTGGCCCATTGCAATTGAGCACATTTCTTGGGTCTGT TTCTCTATCTCTAAGGG[G/C]AGTCTCAAAACCCCAGCTCAAAATACGACACTAACATGATGAACAT GCATGAGCTTTGAAAAGTGCTCTGTAGTCTTATGATGATCTAGAAGAGAGCACTGTCCAATAGAACTTTC
WI-8314b	85 G C	1		TGTGATGATGAAAAGATTCTACTTCTGACCTATTCAATAGGGGTAACCACT GAGGGGAAATGACATCTGGAGATCTAGGTATGTGGCCCATTGCAATTGAGCACATTTCTTGGGTCTGT
WI-8314	78 CIG		ŧ	TTCTCTATCT[C/G]TAAGGGGAGTCTCAAAACCCCAGCTCAAAATACGACACTAACATGATGAACAT GCATGAGCTTTGAAAAAGTGCTCTGTAGTCTTATGATGATCTAGAAGAGCACTGTCCAATAGAACTTTC TGTGATGAAAAAGATTCTACTTCTGACCTATTCAATAGGGGTAACCACT

WI 0201	27 0		TITITAAATATGCCCGTTTAGAGCAGACACAGTCACAATAAAAAGTTAAAAAGTTACAATGTGTCCAG TGTATATACCCAGGNAATCCATTCTTGGTACTTTTCAAGAGCTGCTGTTATACTGAGTCTCTGAGAAG TCCCCTTAGATAATAGCTGCCACTTTTCAGTATGGTTCAGAAT[G/A]AGTATCTTAGTATTCTTTCTA TTTGCTATGGTTCTAGTTTATCAACCTACTTTATTAGCTGAACTGTTGGC
i .	C		TITITAAATATGCCCGTTTAGAGCAGACACAGTCACAATAAAAGTTAAAAAGTTACAATGTGTCCAG TGTATATACCCAGGNAATCCATTCTTGGTACTTTTCAAGAGCTGCTGTTATACTGAGTCTCTGAGAAG TCCCCTTAGATAATAGCTGCCACTTTTCAGTATGGTTCAGAAT[G/A]AGTATCTTAGTATTCTTTCTA TTTCCTATGGTTCTAGTTTATCAACCTACTTATTAGCTGAACTGTTGGC
	7 K B D B Z F F F F F F F F F F F F F F F F F F	1	TATGTACTCACTTTCAGTTACCCCCGTGCCTCCAGAATCGCATGTTGCTCCACCTGGGGGCGGATATA AATTACCTCTAGATTGTCCAAAAGCCCAGTCTTTCCCTTCCCTGCCAGCCTTAGAACAACAAGCCAGCAATGCCTACTGCAGCTACTTAGTAACAACAACAAGCCTACTAGAACAACAAAGCCTACAAAACACTAAAACAAAAAAAA
WI-8332b	123 A C	•••	AGGIGGAGGGINICCGGGGGAAGCAGIIAGAIGAAGIIAAGII
	114 A C	:	AGGTGGAGGGINICCGGGGGAAGCAGIIAGAIGAGAIAAGAAGAGAGAGAGA
0		<u> </u>	TECEGEGCTTAACAGGAAGCATGAGCAGGAGGCTCAGGAAGCTTATAATCATGGCAGAAGGCGAAGGGAGGG
WI-8378	├ ~:		TTTAGCACATATTTAGCATTAAGCCTCAAACGATACAGCAATATGTTACATTCTCTTGTGAAAACAG TTGTTGTTGTAGACTGTTAANNNNNNNAAATGTAACTCCGACTTGTGCAATAGGATTTGACCNTTAA GAGGNTTCTTTTGCTGTGGANGGGTGGCTTTGCTTGAACTTCCATTCTGTTGGCCTTGTAGCTGGTG
WI-8426	-	1	TTGAGCCTCCACAAATAATGCAACCAAGTTTTACATTTTTAACAGCCCTTCTACATACTC/AJCA TCTTCTCTATCTTAGTTCCAAGTTTTAGTTTTCAATCCCAATTATACCATTGTAATTTTAAGA AAAAACCTTCCCAGTTATTGTCAGAAACTATGATTTAGCTTACCCCCTCCACTACCCAGCAAACTAC
WI-8450h	61 C.A	:	AGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTCAT

				TTGAGCCTCCACAAATAATGCAACCAAGTTTTACATTTTTAACAGCCCTTCTACA[T/C]ACACTCCAT CTTCTCTATCTTAGTTCCAAGTTTTAGTTTTCAATCCCAATTATACCAATTCCATTGTTATTTTAAGA AAAAACCTTCCCAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCAGCAAACTAC
WI-8450g	55 T C			AGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTCAT
				CTCTATCTTAGTTTCCAAGTTTTAGTTTTCAATCCCAATTA[T/A]ACCAATTCCATTGTTATTTTAAGA
WI-8450f	108 T A	•	;	AAAAACCTTCCCAGTTATTGTCAGAAACTATGATTTAGCTTACCCCCTCCACTACCAGGAAGTAC AGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTCAT
 	1			TTGAGCCTCCACAAATAATGCAACCAAGTTTTACATTTTAACAGCCCTTCTACATACA
_				CTCTATCTTAGTTCCAAGTTTTAGTTTTCAATCCCAATTATACCAATTCCATTGTTA[T/C]TTTAAGA
WI-8450a	125 T		;	AAAAACCTTCCCAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTAC
+	-			TTEASCOTTCTACAAATAATACAACCCAACTTTTACATTTTTAACAGCCCTTCTACATACA
				CTCTATCTTAGTTCCAAGTTTTAGTTTTCAATCCCAATTATACCAATTCCATTGTTA[T/C]TTTAAGA
				AAAAACCTTCCCAGTTATTGTCAGAAACTATGATTTAGCTTACCCCCTCCACTACCCAGCAAACTAC
WI-8450d	125 T C		•	AGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTCAT
				TTGAGCCTCCACAAATAATGCAACCAAGTTTTACATTTTTAACAGCCCTTCTACATACA
				CTCTATCTTAGTTCCAAGTTTTAGTTTTCAATCCCAATTA[T/A]ACCAATTCCATTGTTTAGGGGGGGGGGGGGGGGGGGGG
WI-8450c	108 T A	;	i	AAAAACCI I CCCAGI I ATTGI CAGAAACTA I GATTTAATGCCCCT CCACTACAAGAAACTACAAAAAAAAAA
+				TTGAGCCTCCACAAATACAACCAAGTTTTACATTTTTAACAGCCCTTCTACATACA
				TCTTCTCTATCTTAGTTCCAAGTTTTAGTTTTCAATCCCAATTATACCAATTCCATTGTTATTAAGA
				AAAAACCTTCCCAGTTATTGTCAGAAACTATGATTTAGCTTACCCCCTCCACTACCCAGCAAACTAC
WI-8450b	61 CA			AGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTCAT
				TTGAGCCTCCACAAATAATGCAACCAAGTTTTACATTTTTAACAGCCCTTCTACA[T/C]ACACTCCAT
				CTTCTCTATCTTAGTTCCAAGTTTTAGTTTTCAATCCCAATTATACCAATTCCATTGTTATTTAAGA
				AAAAACCTTCCCAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAACTAC
WI-8450a	55 T C		•	AGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTCAT
				CAAGGAAAGCTGTCAGTCTTCATAAACTTTCAAAGAGTTACAAAAATACGTATTTTTAA[A/G]CTA
				CAATTCAAGATTAGCATCCAAACCTACAAACATGATGTACATTCGTCACACACCATACAACCTTCAC
				ACCTGGCTACAGCAATGTTGACTTACATCACCATTGTTTATACTTGTGAAAAACTTTATTGTGCACAGT
WI-8458b	60 A G		1	GACATCCGCCAGACTTAATGTTATAAAGCAGCTGAGCAGAGTTCTCA

			CTTCCTCCTCCAAAATCTACATGATACTTGAAGACAATATAAATAA
			TCAGGGAAGTCTAGCACGACGACAGTNTTAACAACTTACAANTTINTAGAAAAGTTATTACTTA
WI-8461c	105 A T	:	AAACATCTGTGTGACCTACATCAAGAAAANTCAAGGATTTGCAAAAAGGGGG
			CTTCCTCCTCCAAAATCTACATGAATACTTGAAGACAA[T/C]ATAACTACAACCTTACAAATGCCAA
			TTAGACAAAGAGANTAAATGATATAATATAAATCATTTTTNNNNNNNNNN
			TCAGGGAAGTCTAGCACCCAAGGACAGTNTTAACAACATTACAANTTTNTTAGAAAAGTTATTACTTA
WI-8461b	38 T C	•	AAACATCTGTGTGACCTACATCAAAGAAAANICAAGGAIIIGCAAAAAGGGGGG
			CTTCCTCCTCCAAAATCTACATGAATACTTGAAGACAA[T/C]ATAACTACAACCTTACAAATGCCAA
-			TTAGACAAAGAGANTAAATGATATAATATAAATCATTTTTNNNNNNNNNN
			TCAGGGAAGTCTAGCACCAAGGACAGTNTTAACAACATTACAANTTTNTTAGAAAAGTTATTACTTA
WI-8461	38 T C		AAACATCTGTGTGACCTACATCAAGAAANTCAAGGATTTGCAAAAAGGGGG
			CTTCCTCCTCCAAAATCTACATGAATACTTGAAGACAATATAACTACAACCTTACAAATGCCAATTA
			GACAAAGAGANTAAATGATATATAAATCATTTTTTATANNNNNNNNNCCTTGTCTTATTCACAT
			TCAGGGAAGTCTAGCACCAAGGACAGTNTTAACAACATTACAANTTINTTAGAAAAGTTATTACTTA
WI-8461	105 A T		AAACATCTGTGTGACCTACATCAAAGAAAANTCAAGGATTTGCAAAAAGGGGG
			AATAACATGTTATGAAACAAGCTGGTTACAAGTAGTAGGTAG
			TAAAAAGCAT[A/G]AACATGCATATAAAAATTAGATTATGTACAAAATACCAACAGTATTTACTTC
			TGCTCAGTAATTAAATATTCTTCCCTTTGTTTTTGTCTTTTTAAAAAACATTATTTCTGAAAAAAAA
WI-9438	77 A G		ATCAGAAAAACATGATCGTGGAGAAATTATTA
			ACAGAAATTGACCTTTATTTGTTGTACTAAAGCCTGTTTAACTTTTGATACAAAGTAACATTTTAGTA
			CAGAAAATCCCAGTCTGTCAGCTCAGTACCTGT[C/TJTGTGCACACTGTACCATCTCAGTCCCACTCT
			GCCTGTAACTTAGAAAACAGCCCCTACCCCCAGAGGGTCTGCGAGTTAATACCTTGAGAATAGTCTA
WI-9439b	101 CT		CAGTTITICATAGITTGTCTGAGCTAGAAACTTGTACCTGTAAAACAAAG
			ACAGAAATTGACCTTTATTTGTTGTACTAAAGCCTGTTTAACTTTTGATACAAAGTAACATTTAGTA
			CAGAAAATIC/TICCAGTCTGTCAGTACCTGTCTGTGCACACTGTACCATCTCAGTCCCACTCT
			GCCTGTAACTTAGAAAACAGCCCTACCCCCAGAGGGTCTGCGAGTTAATACCTTGAGAATAGTCTA
WI-9439a	76 C T		CAGTITITCATAGTITGTCTGAGCTAGAAACTTGTACCTGTAAAACAAAG
			GAAGGCTTGATTAAGGGAGGNTTTATTTGATGTNAACTTACCATTCCATAGACTATAAAGANCATTA
			TAAAAAAA[T/C]CCTCTAAAGNGACACATGCCCCAAATGACCANGNCATAAGCAAACCTTTAAAAT
			TACTCATCTTTCATATGTGTTTGTNCCCCTACTNTTATCACTGTGTCTTCTGTCTTTTGTCTACTA
WI-9446b	75 T C		TGNGAACTGCACACTATCTGTGGCAATATTGT

	-	The state of the last of the l		
				GAAGGCTTGATTAAGGGAGGNTTTATTTGATGTNAACTTACCATTCCATAGACTATAAAGANCATTA TAAAAAAAA[T/C]CCTCTAAAGNGACACATGCCCCAAATGACCANGNCATAAGCAAACCTTTTAAAT
WI-9446 7	75 T C	•		TACTCATCTTTCATATGTGTGTTGTNCCCCTACINITATCACTGTGTCTTCTGTCTTTGTCTCTCTCTTGTCTCTCTTGTCTCTTGTCTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTTG
: 			ī	ATTAAAATGTCAAGGTTTCATGTTTACATTTTCTTATATCAAGTACAATGGTATATATA
				TATCTAGACATATATCTTAAACAGTCTCCAAATTTNCTTTAATTAATCAAAGTATGTTAATGTCACTT
WI-9497b 185	35 A		•	GGAATTCTACATGGAAAAGCCAACAAAATAACTAAAACTTGACTAATGAAG
				ATTAAAATGTCAAGGTTTCATGTTTACATTTTCTTATATCAAGTACAATGGTATATATA
				GAGATAATTATTCTAGATTCCAGGCTTTCTTCTAGATGTAAGTNCCTAAAGCTTALAGTLIACALIGA TATCTAGACATATATCTTAAACAGTCTCCAAATTTNCTTTAATTAATCAAAGTATGTTAATGTCACTT
WI-9497 18	185 A			GGAATTCTACATGGAAAAGCCAACAAAATAACTAAAACTTGACTAATGAAG
				GTGAAAAAGTTTTCTATTCATTCCATCATACAATAGATTGTGCTAAGGATCATTTTGGAAGAATGTG
				CAGCATTCAGAAGITGTATC1CATCATGCAGICACICAGCAGCAIIIIAICIAAAAGIACGIGCAGACTCAGACAATTACAAACTATTTCAGCCATGATCTATGGTGATTTTCCACACATTGTAGCAAAACTATTTCAGCCATGATCTATGGTGATTTTCCACACATTGTAGAAAATACAAAAAAAA
WI-9523b 1 9	193 CA			AAAGCTCTTCAGCTTGGAACAACTTGTCAAGGCAGACTGCATGCA
	-			GTGAAAAAGTITICTATICCATCCATCATACAATAGATTGTGCTAAGIG/AJATCATTTTGGAAGAAT
				CAGACTCAGACAATTACAAACTATTCAGCCATGATCTATGGTGATTTTCCACACATTGTACAGTGA
WI-9523a	47 GA	•	•	AAGCTCTTCAGCTTGGAACAACTTGTCAAGGCAGACTGCATGCA
				AAAAACACAGAGTTTCATACATCACAAAAAACCTTCCATTATAACACAGAAGTGATTATTACCAGAC AACAATGCAGAGATGTTATATGTACAGTGATGATGATAATGCAGCCATG
				CAATACACCCAAGAACACTAGAGTCCTACACCCCAGTACAATATGATAAAAGCAGCCCTCTGCAAGTG
WI-9554 20	202 T C			GĮT/C]GCTGGATACCACTAAGAAGTCTACTGCAGCCATGTTGGTTATGATTTT
				CCAAAAGCCAAACCATTCATATGTATGGATTTCATAAACATTTATTGATCCTTTTTTGAGGTAAGTAT
		•		AAATACCTTTACATGGCTAACCTTCTAAC[G/A]CTTGAAAAATCAATTTCAAGGGACTCTTTAATCA
WI.9555	07 0	-	į	GTTAAATAATCTGCTTTAGAAGGCACAAATGATCATACTTCAGATTAAAATACAGGTAAGTATTCAG GGNTAAAATGGTACAAAAAAGGCTGTAACTCTTTTNCTTCACATTGATCACA
+-)			TTGAACATTTAATGAATGACAAAGACATAACATCCTCTGAAAAAATCTGCAAGTAAATCATCTTT
				TAAACAATAGCTACCATATATTTGTATCTNCTCCTTGGGAAAAAAAAAA
				TAAGTATCATAACTGAGGGTTGTGGACAAGTTACTTCT[A/T]GTTTACCAATTTTTATATTGACATAA
WI-9625b 172 AT		;	;	AGTAGCACAGACTAGTTATTTCATTTAAAAAACACACTGACAAATCTTTTC

			TTGAACATTTAATGAATGACAAAGACATAACATCCTCTGAAAAATCTGCAAGTAAATCAATTTT TAAACAATAGCTACCATATATTTGTATCTNCTCCTTGGGAAAAAAACTTTGGAAAAAAAAAA
WI-9625	172 A T		TAAGTATCATAACTGAGGGTTGTGGACAAGTTACTTCT{A/T}GTTTACCAATTTTTATATTGACATAA AGTAGCACAGACTAGTTATTTCATTTAAAAAACACACTGACAAATCTTTC
			TTTTICTGAGATTCAAAGAGCTACATTTTTGGTTAGTGTATGTCTACTATACCTTTTTTCATCCTTTCA
			ACATCTTTGTCACATTTTAGGTGATGCTCTTGTAAACAGTGTATTGCTAGACAAAAATCCAAGCI
WI-9647	144 C T		TACAACT[C/T]GTCCTTTACCTGATACATTTACTTTACTTTTCATTTCA
			GECCACTGTCCAAAGTCTGTCACAGTCCTCCATATGGCAAAGATGAAAAATTGGCAATCTTTTA
			GGGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAAATGCAGAGA(A/G)GATGTGGCTTTCCTGCC
WI-9676n	114 A G	:	GCCAGGGTCTCTCAGCTTTAAAGCCTTGGAATCCTATGCTTGTTTGT
			GGCCACTGTCCAAAGTCTGTCACAGTCCTCCATATGGCAAAGATGAAGAAATTGGCAATCTTTTA
			GGGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGGCTTTCCTGCCCC
WI-9676m	184 GT		ATTTCACCTCAAGGCATCTTCAGCAACCCCACATGGCTTCCCTCTGTGC(G/T)CATGAAATAACTTGAAAAAAAAAAAAAAAAAAAAAAAA
			GGCCACTGTCCAAAGTCTGTCACAGTCCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTA
			GGGGTACCAAGGNTCTG(A/C)GTTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCCTGCC
WI-96761	84 A C		CCCATTICACCICAAGGCATCLICAGCAACCCCACATGCTTCCTCTGTGCGCATGAAATAACTTGAAGCCAGGGTCTCTCAGGCTTTAAAAGCCTTGGAATCCTATGCATTGTTTGT
			GGCCACTGTCCAAAGTCTGTCACAGTCCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTA
			GGGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCCTGCCCCC
			ATTTCACCTCAAGGCATCTTCAGCAACCCCACATGGCTTCCCTCTGTGCGCATGAATAACTTGAGG
WI-9676k	202 CT		C/I]CAGGGICICICAGCIIIAAAGCCIIGGAAICCIAIGCAIIGIII
			GGCCACTGTCCAAAGTCTGTCACAGTCCTCCATATGGCAAAGATGAAGAAAAATTGGCAAAATTTTATTATTATAAAAAATTATGGCTTTTCTGCC
			GGGGTACCAAGGNTCTGAGTTTCACCAACCCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA
WI-9676j	92 CT	•	GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAATCCTATGCATTGTTTGT
			GGCCACTGTCCAAAGTCTGTCACAGTCCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTA
			GGGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCCTGCCCCC
			ATTTCACCTCAAGGCATCTTCAGCAACCCCACATGGCT[T/C]CCCTCTGTGCGCATGAAATAACTTGA
WI-9676i	173 T C		GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAATCCTATGCATTGTTTGT

			GGCCACTGTCCAAAGTCTGTCACAGTCCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTTA GGGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCCTGCCCC
WI-9676h 13	134 C A	:	AGCCAGGGTCTCTCAGCCTTGAAAGCCTTGGAATCCTATGCATTGTTTGT
			GGCCACTGTCCAAAGTCTGTCACAGTCCTCCATATGGCAAAGATGAAAAATTGGCAATCTTTTA
			GGGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCCTGCCCCC
WI-9676g 20	202 C T	:	ATTICACCTCAAGGCATCTTCAGCAACCCCACATGGCTTCCTCTGTGCGCATGCAT
-			GGCCACTGTCCAAAGTCTGTCACAGTCCTCCATATGGCAAAGATGAAAAATTGGCAATCTTTTA
			GGGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCCTGCCCCC
			ATTICACCTCAAGGCATCTTCAGCAACCCCACATGGCTTCCCTGTGC[G/T]CATGAAATAACTTGA
WI-9676f 1	184 GT		GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAATCCTATGCATTGT11GT11
			GGCCACTGTCCAAAGTCTGTCACAGTCCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTA
			GGGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCCTGCCCCC
- ,-			ATTTCACCTCAAGGCATCTTCAGCAACCCCACATGGCT[T/C]CCCTCTGTGCGCATGAAATAACTTGA
WI-9676e 1	173 T C	•	GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAATCCTATGCATTGTTTGT
			GGCCACTGTCCAAAGTCTGTCACAGTCCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTA
			GGGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCCTGCCCC
			C/AJATTTCACCTCAAGGCATCTTCAGCAACCCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTG
WI-9676d 1	134 C A	•••	AGGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAATCCTATGCATTGTTTGT
			GGCCACTGTCCAAAGTCTGTCACAGTCCTCCATATGGCAAAGATGAAAAATTGGCAATCTTTTA
			GGGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAAATGCAGAGCAAAGJGATGTGGCTTTCCTGCC
			CCCATTICACCICAAGGCATCITCAGCAACCCCACATGGCTTCCCTCTGTGCGCATGAAATAACI1GA
WI-9676c 1	114 A G		GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAATCCTATGCATTGTTTGT
			GGCCACTGTCCAAAGTCTGTCACAGTCCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTA
			GGGGTACCAAGGNTCTGAGTTTGTA[C/T]GGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCCTGCC
			CCCATTICACCTCAAGGCATCTICAGCAACCCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA
WI-9676b	92 CT	1	GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAATCCTATGCATTGTTTGT
			GGCCACTGTCCAAAGTCTGTCACAGTCCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTA
			GGGGTACCAAGGNTCTG(A/C)GTTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCCTGCC
·			CCCATTTCACCTCAAGGCATCTTCAGCAACCCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA
WI-9676a	84 A.C		GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAATCCTATGCATTGTTTT

		<u>.</u>	TGGACCAAACACAGACAGATGTATTCCTGGTGCCTGTGTQC/AJATTACAACTCATTGATCACATGC AGCAACATCAACATCTCAAGGAGTCCATTTGTTCAAAACACAGGAAATGACTCCACATTTCCCTTT
WI-9738b	40 C A		GAGTCAACAAAAGACTCTGCTTGTCACCTTGCCTGGAGCGGGGTGGTTTTCACTATGTGAGTATCTA TCTTTTTATTTCTGTCCCTTATGTTGGTGGCACATGTCTGTATTGCTGTCC
			TGGACCAAACACAGACAGATGTATTCCTGGTGCCTGTGTA[C/A]ATTACAACTCATTGATCACATGC AGCAACATCAACATCTCAAGGAGTCCATTGTTCAAAACACAGTAAATGACTCCATTTCCCTTT
WI-9738	40 C A	;	TOTITITATITICITETCCCTTATGTTGGGGCACATGTCTGTATTGCTGTCC
			ACTGAAATGTAAATGGCCAAGGCACCCAGGACCTTAAAAATCATAAGAAGTTAATCTGTGGGAAAA GAGTAACTACAAAAAGCATCTAAACAAGAGCAGGATGTGATGTAATGTGTCCCCTTATCACTTTAGTC
WI-9756	47 A	}	AGTAAAGATAAGAAAGCCCTGGTGAGTATCCACTTCCACAAAACACACAGAATATACACTTTTGGAAGATTTCCACTTAAAACTCTCCGTGG
			GATGGTCCCTTAAGGATTTGCATTGGTTAATGGGCAGACTGGTGCAAAAGAGGCTGAATTGAATTGAATTTTAAATTAAAAAAAA
	(· · · · · · · · · · · · · · · · · · ·		AGGAAAC IGGGAAAA ICAA ICAAA GCAAA IGCIAAGIAAAGIA
0C/6-IA	D		ATT ANATOCACCOCCOCCOCCOCCOCCANANT CONTINUE AT TOTAL CONTINUE AT TO
			GTTCTCATGCACCATTITCATTITGCCTTCTCCAAGTACCACTGATTITACCAATT[G/A]CTCTC
	(ATAATTGACTTTGCTACTGGAAGAAACTCTTAGAATGTTGGAATTTCTCTATTACACACTTTGCCTCA
WI-9778	127 GA		AAGAAIGIGICAGICAGGACAAAAGGCAAIAGICICAGGGGCAGAAGACAGGCAGG
			TCTCCCCTTTGCCTCCTCATGCCCACTCCCTCAGCCTGCACAGAGCGTTTCTCCAGTGTAGTCTCTGGT
		7	CTCAAAAAAAACTAGGAATTGGGAGAAGAGGGACCTGGAATCGGTGTTGCTAGCAAGCCCCCAGGTGG
WI-9832	116 C A	•	TITGTAAGTGGACTAAAGTTTGAGGACCAGACATGGAAGGTTGGCTTTGGC
			TGGAAAAATAGCTTTTATCAATCTCTGATATGCTACATATGTCATGGAGAAATGCAGAATGGCATGA
			TATGAAATTCCATTTTTGAATGAATAAAATATACĮA/GJTGTGTATGTATATATACTTATTAACACTT
			AGGATTATATACACACAATAAAACGTCTGTAAGGATAAACTAAGGTTCTATCAGTGGGAAATGAGA
WI-9841	101 A G		TTGAAAAGAGGGGATGTGTTACTTGATATGCTGTTG
			GAACTAACACCTTTCTTGCATGGATTTTTCTTGATTATTGGCAGTTAACAATAAAATGTTATTAGATC
			ACTEGTECTTCTGTGTGGGGTTGAGTTTTTATGATATCTCCTGTTAGACCCATAAGGGAGGCTGTGA
			GTTGTTTTCTACATCCTTGGACTATATAAGATCCTCTTTTAAAATTATATATA
WI-9880c 222 G A	222 G A		AATGGAATGAAATAATGA[G/A]TTGACATAGGAATTACCTACATATTTIG

			GAACTAACACCTTTCTTGCATGGATTTTTCTTGATTATTGGCAGTTAACAATAAAATGTTATTAGATC ACTGGTGCTTCTGTGTGGGGTTGAGTTTTTATGATATCTCCTGTTAGACCCATAAGGGGAGGCTGTGA
	(GTTGTTTTCTACATCCTTGGA[C/A]TATATAAGATCCTCTTTTAAAATTATATATATAAGCACAT
WI-9880b	157 C A	•••	GAAAAIGGAAIGAAIAAIGAGIIGACAIAGAAAIIACCIACAIAIIIG
			GAACTAACACCTTTCTTGCATGGATTTTTCTTGATTATTGGCAGTTAACAATAAAATGTTATTAGATC
			TGAGTTGTTTTCTACATCCTTGGACTATAAAGATCCTCTTTTAAAATTATATATA
WI-9880a	108 CT	••	GAAAATGGAATGAATAATGAGTTGACATAGGAATTACCTACATATTTTG
			ACACTGCAGGCACTCCAAATCCTNACAGACATATGCACTTCGGAATCAACTCAGGCATGCACACA
			CCCTGTGCTGGAGTTTATTTTAAAAACAACGCCCCAGTTATCACAGTTTCTN11111G1[G/1]CACC ATTECCATAAACAAAAAAAAAAAAAAAAAAAAAAAAAAA
WI-10183	127 CT	:	TGCAGAGGGGTCATGAATAATGATTCCAAA
			TCCCTCAATGACAGATGAACTAAATTTTCTCTTGGGTAAGAAATACTTTATGTCCATTGTGATTAAA
			AAGTCAGATTCAAGACACTGCTTTATGTACAAGAAAATGGAAĮA/GJTGATTTTAGATCCTCCCCAG
			TGACAAGTAAACTGAACTGACCATATTTATACATAAAATGGAATGTAAGAACCTATTTTGGATATCC
FB25G10b	109 A G		CGGAC
			TCCCTCAATGACAGATGAACTAAATTTTCTCTTGGGTAAGAAATACTTTATGTCCATTGTGATTAAA
			AAGTCAGATTCAAGACACTGCTTTATGTACAAGAAAATGGAA[A/G]TGATTTTAGATCCTCCCCCAG
			TGACAAGTAAACTGAACTGACCATATTTATACATAAAATGGAATGTAAGAACCTATTTGGATATCC
FB25G10	109 A G	1	CGGAC
			ACAACGCTGAACTTCCATAACAGTCAATGGTACAGTCAAACATCACATGTACAGAACACACAC
-			GATGAACTGAAATTATAAGNTAAATAAAATACAATIC/AJCAATTTCAGNAAACAAAAATCAAAAC
			ATTAAGGNTCCCTGNNATATTCTTAAACCCTAATGAGATTTCACTGGNCTCAAGTCATTTTGTAGTGA
IB3071	102 CA	-	GGCATTCACAATATGACCCTATTAACCCAGTCTAGGGATTCTG
			CGTCCTTTCCTTTTTGAGATTGCAATTAAGTAGATAATATGAGAGAGA
			TACTGAGCTTGGGGCCAGGTGTGTACTTAGGAACCCAATCCCACCAGAAGAGAGACTCATGTTA
			ACACTAAGGATGCCCTGGAGGAGGTCJC/TJTGACCACATACATGCGGCCATTGGTTGATTTCAGCTTT
NIB551	161 CT		GCAAGCAGCGTAGTGAAAAACCAAAAGCTTGTCC
			AGCATAGAAAGTGATTTATATTTTTAATGGTTTTCAAGTGGAAGTTCCTTT[G/T]AATTTGTCAGTTC
			ATTCCTGGAAAATCTTTTGAGTTAAAATAAGGATCCTAGGACAGCACCTCGAACTACAGGCCCTAAA
			GAGAAATTGCCTCAAACCACAAGTGCTGTAACTTCCTCCCCTTTCTGTCAATTGGTTGTCTTTAAATA
S72904	51 GT		TTGCAAAAGTCCTGATGCTAAACAGTATTTGGAGTGTTTTCAGTGTCTGTA

45			TATTCTTTTTATCCTGGGGCCACAGTTCTTGATTATTCCTCTTGTGGTTAAAGACTGGAATTTGATATGATAAACCCTTTTGATATGATAAACACACAC
00481	115 C T		AGCTTGACCTAAAGGCACCTGTGTAGCATTTCAGATTGAGC
ESTC	33	; ; ;	CCCTGTAGCAGTCTTCAGCCTCCTCTACCAGNAGATCTGGAGCAACAGCTAGGAAA
ESTC102	37		GCTACTACCACGGCTGCTTCGTTTGGACAAAATAACNAGGAGGCATCCACGGGATTAGTTA
ESTC103	21		GCCATCAAAATTTCCTTCACANTCAATACTGTTGAACAACAAGATAACACATCTTCTTGCTCATCCC ACTTGAA
ESTC107	: i		TGCTGGCTCACTTCCTCACANGCTGTATTACCTTTCAGAGCTGAGGTGAGG
ESTC109	35		AAAACCAGGAAGGCCCTGCCCCGCAGAGGCACATGNACAGGGCCAGTGCACAGTGACC
ESTC110	23		AAACCTCACACAGAAAAAAGAGGANAACACTCAGAAATGTGATTACAGATTAGGCA
ESTC113	37		AAGGGACACAGTGTTGCTGACAAGGTGACACTGAACANAACAGTTTTCCTTTAATTGTAAAAGCGGG
ESTC117	24	••	AATTGGCTCTTCTCCACATGATACNTAAGTTCAAGGTCCAAAGTTCCTATCACAATTTACAAAAGC CTCCA
ESTC119	24		TGTCAAGCAGATCTTGAGGGTTATNGTTAAGCCTGATAACAGCCTCTTT
ESTC122	34		GACAATAAACAGCTAAGCTACTGACATAAAATATNCAATAAAATTTATGAGATATAAGGTACAGATG AGAAAAATCTGAAA
ESTC123	21	1	GAAGCCAGTATGTGGCAANATTCGAGAAAACACACTGAAAAA
ESTC128	42	1	GCAGAGGCATCAGATAAGGCCTCAGAAAGCCCAGGCCATCATNTTCCATGGGACCAGGCTGGCTCAA TGTGGAACTGG
ESTC129			AGTCACCATGCCCAGCCTAGNATGAGTTTAGTAAGATTTGGTTATGCTGGGGAG
ESTC13	46	<u></u>	GTGTATCTGGGCTTCATGGGATGCATAAAATTTTCCAGTTGGTAAGNAGCAGGTGCCGAGGGTCTGGA TCAGAAAA
ESTC130		1	GCCTGCTCACAAGGTAGACAAAACATAAATCTTCAGGAAAATGAAACANGAGAAGGTGAAACAT CTACACCTGAATG

ESTC132	30			GGTAAAGTCTAAATTACTGCCTTAGCAAACNCTATGTTGTCAGGTTTTTCTGCTGCA
ESTC137	21		:	CCAGTITGGCTTCTGTCANAGTCTCTCCATGTGGCAAACA
ESTC139	45			AGGAGCACAGCCTAAGGACATGAAGGTCAGAGTTTCTCAGAGAGGNGGGGCTGGGTCCCTGAGCTAG GAGGAGG
ESTC14	20		!	CCCATTGTGGTCACAGGAAGNAGAGGAGGCCACGTTCTTACTAGTTTCCCTTGCATGGTTTAGAAAGCTTGCCTTGCATGGTTTAGAAAAGC
ECTC142				CCTAGGCTCATACAATACAGTCTCAATACAAAAGACGTAATAATCTATTTTATTCATTTTAAATC
ESTC143	;			GTTTACGAAAAGTACTGAAAATGCTATTANTAGCTGAATTTGTGATTTCCTTTTG
ESTC144	9			
ESTC146	20	- 1	i	CATGTCCAGGATAAGGAGCANACACCCAGGATTTATACACGGTGGCAGCG
ESTC148		;		TCTTTGGTTGTCTACACAGACACTTAAGTACTGTATCGCTGTNATGCAGCGGCCTGTGGAGGCCCTTGGGGGGCCCTTGGAGGCCCCTGTGTGTG
ESTC149	1		•	TCAGTTCATTTATTTGCTTTAAGAGTTANATACCATGAGACACACAGTTCTGG
ESTC15		:	i	GGATTGTAATATTGCCAGCTTTGTAAAGNCATTAAAGCAGAAGTTTCTTCAGTGATCTT
ESTC150	20		:	CCAGGAAAACAAAGCACACANACTTATAGAATACTTTGGTTTAAAAAATTATTCATAATATCAATATTA
ESTC151	;	:	ţ	GAAGCTAAGGCCCCATTTTTTTTTTTTAATACAAATCTACTGGTGCTNAAAACTCAGAGCTTAGGA AACACAGCC
ESTC155	1	:	;	TITITAATTGACAACTCAATCTCTACATACATACAGTNITGCACGAATTATAAGTGGATCAACAATT
ESTC156	32			GCAGCATTTGTGACAGGAGAGCGCAAAACAAANCCTGGCTGCCTCGGGATGGAGCGGGGCGGCCTCA CCACCACTGCAT
ESTC158	35		i	ACCAAGCCCTGGGATTTACTGTCTTGATGACTACANGGCTTTGCACAGTCTGAGATGCTTCAGTGTGC AA
ESTC159			:	AGCTGGCAAGAGACTTCCTGAGGCACATCAGNTACGTTGGTCAATTTAGGGCACGGTCTGGTTCTGCAGCTTTGAAAGG

ESTC16	23	ï	CACTGAATGCTCTGCCATGAGCCNCAAGCAGACAGTGATCATCACCCACAAGGACAGGTT
ESTC160	1		TTCTAGCATTGCTGGTGCAGTGGGGCCTGAGCTGGGGNGCAGTCGCCAGTGTCACTGGGCCGTTTG GGACTGGGTTGA
ESTC162	 	•	CTCTTCGTCCGTTTGCTGTTTGTTTCCAGNTACACCAGTCAGAGCTCCACAG
	}:		TCATTCTCCATAGAATATTGGTTTTGTAACANCGAATACAATCCAATATATAACATTAAAAACAATCC
ESTC164	31		GATACATACCA
ESTC169	22	1	GTCTCTGGTGTGCAGGGAATCANTTTGCTGGATTAGAGGAAAGGTGCCGCCGTCTGTTTCCATGACTT
ESTC176	23	;	CACCTCCTCCCCGAGCTACCCANGTAGTGTCTGGGAGCTGGCA
ECTC177			TGGGTGGCTCTTTAAATACCTTCCATTATATTTTCAAATTTTNCTTTATTCTATTAAAATACCTTTTAT
	J		TOAGACACTGCCGACATCAGCATTGTCTCAHTGTACAGCTCCCTTTCCCTGCAGGGGGGGGGG
ESTC18	29	:	AACTGGACAAGA
FSTC181		ļ	TAGGGATTCCAAGTTGCCTGGNTTTAATATATACATATTCACAAAATTTACACAGCTCATGCATAC
FSTC186	:		GCTTGACTAGCGAGGCTACATCACAATTTATAAAGTGCCAGATNAGTGCTAATTGTCATTCAGCTTG
FOTO 107			
101010		:	ארכאו של האינו האראלי אינו האינו אינו אינו אינו אינו אינו אינו אינו
ESTC188	25	1	TCTATTAACAGGGTTATGTCACCCNTGTCAACCTCAAACAGATGATACTCATCACTTGTCTTCCAT
ESTC189	27		AAAGTACAATCCAGTATATGCAGAAAGNTACTCAGCATCACACTCGTGATCA
ESTC196	42	;	TCCTCAAATACCACTTTCCCCTAACTTATCAGTCTAGTAAGCNTTTCAAAGGAGAAAATGGGTTAC CTTTCAGGGG
ESTC197	26	-	ATCTCCAGTGTCTGCTGCTCCCACAAGTCTCCCACAAGCACA
ESTC20	33	;	AAGATTAGGACAGACCGCGTATAGTAAGCTCTGNGGAACTCCAAGAATCTAGAGGGGGGCTGTGGGAA CGCTGCTTAGATC
ESTC200	1		TTTGGTGAAAATCCCAATATATGAGTTTAAAAAAAAATCATTANCATCATTAACAGTACTTTAAAT

ESTC201	35	1		TCTTACTTGGGTAGTTTAGCAAACATTTTTAAAANCCACATCCAACAGATTGGTT
ESTC202	Q		ŀ	CTGCTGGAGGGAGGACAGACGGNCAGGCGGCCTGGGTGGCCGCCCCAGAAAGGCTGGCGTGGATGTT CGAGATGAGCC
ESTC203		;		ACACTTAACAGGTTAAAATATCCAAATNAAATTTACTGCAACTTTTGTAGAATTTTATTTGTGCTAC AAGACACGTTGCA
ESTC208				TATAGCCCCATCGCTCTCAGTTATTAGAATCTGAGAGGGATAANAGCAATAACTATTGTTTAAAAAGC CTAAGAGTGAAAA
ESTC210	. 6	:		GATGAAGTGGCTTCCTTTGGCGAAAGGATNAAGAAGTGAGTGACGGTGACCTGTG
ESTC212			:	GGGTAACCTGATGAGGAAGCTCTAGTGNAGAAATTCAGGACGCGGTCTTCAGAGCAGAG
ESTC214				CTCCAGAGTCCCTCCTCANACCAGGGCAGGAGGTTAGGGAAT
ESTC216	49		:	TGGCAAGAAATTTATTTACACTAACAAATTAAATTTAATCACAGGTATTNTTAGATTGGTCAGAAAA
ESTC217	28	;	i	TTTTGTCAGTAAATGAGCAATACACTGANTGGAAATCTGCATGATTAAATAACATTAACAAGTCAT
ESTC219	32			GTACACATCCTGGGGGTGAGCACACACACACAAANGGGGTGGGACGTGCAGAGAGGTATAGGGTAAAGGGCAAAGGAAGC
ESTC22	41			TCATTGAAGAAAATTATGGGTTTTATTCTTATTTCTAATTGNGAGAATGCTTAATGTCACAGGCTACA TAAGGGCC
ESTC223		1		CTTCTGAAGCCCAAGAGGGGGAGAANGTAGTTCTTGATTTAAAAAAAAAA
ESTC224	37.			CGAAGGTAGATTTCCCTCACATATTACAAATACACANAAACACACACAC
ESTC225			i	TGCACTGTTACTCCCCAGACNGAGAGCTTACATACCATATAGAAAGAGCATAAGTGCTTCAGAAGGAATGGATCG
ESTC23				TTCTACTTTATTTCATATTCCCACCACNATAACGACTCCTTTAATTTAA
ESTC230	43	:	•	GCTTCCTCCACGAATTTGAAAGACATATTGGCTGACCTGATACNTAAGGAGCAGGCCAGAATTAAGA
ESTC231	24		1	CAAAAGGGTTAGTCATATTCCCCANCAACAGCATGATAAAATAATTCAAC

ESTC28	23	;	GAAGAGCTGGGCACGCATCTGACNTTTCTTCCTCTATTCCTATAAAATAAA
ESTC3	:		CAGACATGACCTACCGTCCCNGGCCCTCAATTCATATTTTATTCTTGAGCCGCTTGGTCAGGTTTGAT TCGCACACTCC
ESTC31	1		ACAGCCCCACAGAACTATTGTAAAACAATATTNTCAGTCGGTGATCATTGTAATATACAAAAG CAATTTCCTCAGA
ESTC33	1	•	AGCACTTCCAGCTCCTTGACGTTGTNGGACCAGGGAACTTCCGGAA
ESTC39	26	;	AAGGAAAGGGAACCCACCTGGGCTTTNGGTCACAGAACTCAGAGCCTGGGCATTA
ESTC4	23	:	CCACTGAATCACACATGGACNAATCTCAAATCATTATGCTGATGGAAAGAAACCATT
ESTC40	22	:	GGCATGCTAGACAGAGGCATTANTTTTGAAGATCTTTTAAAAAATATTTTGACTTGTTCCCCCTTCAC
ESTC45	37		TTTGGAGGTTTGTGTCTTTGTAACNCTCTCATCATCGAGGCTATATTAA
ESTC50	56	:	CTGTCCGTGGTGAGCCCTGCCGCTGTCCCATGGGCCCAGGGAGCCACTGGTGCGGANCCGGGCAGATG
ESTC56	45	1	GTGCCCTGAAGATTAGCAGCAGCAGCAGCAGGTGGCAGGAAGNAGTGGAGGGAAAAGGACACCA AGT
ESTC57	20	į	AAGTGGCCCTCCCAGTCCCATCTCTGGGCACAGATCCCACCAGTCTGCTC
ESTC59	:	1	GAAACACAAAAGTGTTGAGAAAAAAACTTCTCAAAATTNGTTCCAGACTTCAGGAAAATGATTTCC ACATGGTAAGGCC
ESTC6	27	:	TCTGCAGCACTTCACTACCAAATGAGCNTTAGCTACTTTTCAGAATTGAAGGAGAAAATGCATTATG TGGACTGAACCG
ESTC61	57	<u> </u>	AGTGATTTTGGCTAGGCGTGGTTCTCATCTGTGAAATTCCACAGCGCAATGACAGCANCCTCTCCCC
ESTC63	20	•	ACAGACACAGCATCACCACANAGGGCCCACGGGAGGGTCGGGGAGACGACGTTTTTCCCTGGGAAA GGCAGCTCTAATC
ESTC69	;		GAGAGGCTAGTCAGGAGGGANACCCTCAAGTTTAAATCCCCACACTTACTTACTTACTGCTCATCCGT
ESTC7	45		AGTITCCCTAGAGCTGTGCGGCCAGATAGCTGTTCCTGAGTTGCANGCACGATGGAGATTTGGACACT

ESTC72	37	:	:	GGGCTTCCAAAATGGGTATTGGGGCCAGGAGGCTGGCNTTTGGCGTGACGCCTAAAAAGTGTGACC
ESTC74	49	:		GAAGA
ESTC77	40			ATGACTTTCCTGTCCCATCGGAAACCAGAGTTTCCCCAGGNGAGCCCTTCCTATCTGCGGTTA
ESTC81	20	.		GGCTCAGCACAGGGATAAGANCCCCACTCCGCATGTCCCCAGAGGGCAGCACTCCAG
ESTC82			;	TTTCAGATGATGGGGTCTGAGATGTNTCCTCAGGCTGCATCAGCTGTCTTCAGTCTCCAGAACAGAAAAAGGGCTGACCTGACCCA
ESTC83	53		:	CAAAATCAAATACACAGATCCAGATATGTGAACCATATATACATATCTATACANCCATTATTTAGACTTTTCACAAAACCT
ESTC85			:	TTTAGCTGCTATACCAAGTTTCCATAAANCTGTCTGCTGGTTGGGGAGGCTACAGCCTGACCACATTC TTTGC
ESTC89	22			ATTGCAAAGGAAGTGGAACGTGNTCAAACAGAAATGGTGACAATGA
ESTC90	33			CTGGTTCTCTTCGTCTTGGCATTCGTCCTCCTCNGGCCAGTGCTCCACCCAAGTGTCCTTCCCGATGAT
ESTC93	29		. ;	CTCCCCTCCTCAGTGGAGACTANGGAGATTCAGGGCAGGATCC
ESTC95	32	į		GCACGITCTITGITCTCCTCTTCCAGAAGTTGNAGACGICTATTTAGTTTGATTATCTGTCG
DWU-100	127 CT	!	ļ	AAATGACTTGACGAAGCTCATAGAAGATTAGCAGGTAGTAGAATAATGACTGCTGACTCCTAATTCAGTGGTTCCTAGACTCCTAATTCAGGATCTTCCCTGGCCACCGTTTTGTATTGAGCTGCAGCAATGCTTCCTTGACTGTTCTCCAGCTTGCCAGGAATGCTATCAATGATCTTCACCTAAGAAACAGCAAAAAGATTCTTGGCAAGCACGATCTTAGAGAAGAAGAAGAAGAAGAAGAAGGCTTAGCTG
				TTCCATCCTAGATATCTACTCAAAATAATTGAGACAAGTGTTCAAACAGAAAGACGCTTGTGCTGAA TGTTCATGGCJA/GJGCCCTATTCACAGTAGCCAAACGATGAAAACAACCCCAAGCTATATTACCA GATGAAAGGATAAAAAATGTGGTCCATCCATACAATGGAGTATTACACAGCCATAAAAAGGAAT
DWU-177	77 A G		:	GAAGCAGTGATCCCTACTACACTGTGGAT
				CAAATACCTGGACTATCAACCTTGTTGCTTAATCCCTGCAGCATTCAAGGTTAATCCATCTAAGTGACATTTTGAAATTGCAGCGGTGCCACCAATCATGCCAGCTTCTGTCATATGAATGA
DWU-286	213 A C	:	:	TCAACAGGGJA/CJTGGGAAACCAGCCCTATCTGAGTCTTCGGCTCCCTCC

			TOTO A A STOTA COTO COTO COTO COTO COTO COTO COTO
			AGTATACAAACATITAAGCTGTGGTCAAGGCTACAGATGTGCTGGCTTGGCCTTTGGAGGAACAATCGGC
			TGCATTGAAGATCCAGCTGCCTATTGATTTAAGCTTTCCTGTTGAATGACAAAGTATGTGGTTTTGTA
752-0M0	94 A G		A1
			GAACATTCCTCTGCAGCACTTCACTACCAAATGAGCATTAGCTACTTTTCAGAATTGAAGGAGAAAA
			TGCATTATGTGGACTGAA(C/T)CGACTTTTCTAAAGCTCTGAACAAAAGCTTTTCTTTCCTTTTGCAA
			CAAGACAAAGCAAAAGCCACATTTTGCATTAGACAGATGACGGCTGCTCGAAGAACAATGTCAGAAA
DWU-330	85 C T		CTCGATGAATGTGTTGATTTGAGAAATTTTACTGACAGAAATGCAATCTCCCT
			GAAAATGTTAATTGGGCAGGTGAAAAGGGTACAGATGTGCTGTAGCAGACCTTTGGTTTTAAAAGAG
			AAGCATCATTTCCCCAACAGGGCAACTGTAGAAGGCCAGCTGAAGAGGTAAAGGAAAAGGTCTGAGG
			ACTGAGCCTGTGGCTGGAAAAAAGGTGAATGTTGAGGGCCCTTCACTTCCATCACAAGAAAGTC
DWU-370	231 A G	•	ATTAGACGGTACCAATTCAGTGTCTGTTCCT[A/G]GCATCTATTTCCTCTGTGC
			CTCTTAACTTCAGTTCCCTCATCTATAAGAATAAGGGATTCAGTTGTGATCACATAGCTCAGGTAATC
DWC.		and the second	CAGGACCAGAAACCCAGGAGGIA/GITGGGACCTGATCCACAGCTAGAGGATGGGGGACTCTGTAGCT
1537b	89 A G	:	ACAGCATTTTCCTGAACACACAGAAATCCAGTAAGCAGCACACACTGGCTGA
			CTCTTAACTTCAGTTCCCTCATCTATAAGAATAAGGATTCAGTTGTGATCA(C/TJATAGCTCAGGTA
DWU-			ATCCAGGACCAGAAACCCAGGAGCATGGGACCTGATCCACAGCTAGAGGATGGGGGACTCTGTAGCT
1537a	52 CT	•	ACAGCATTITCCTGAACACACAGAAATCCAGTAAGCAGCACACACTGGCTGA
			ACCATCTTATACTATGGCAGGTAAGTCCATACAGAAGAGCCCTCTCTCCCTGGGATTTGAGTGGGGTC
			CCCAGCTCCACCCAGAGGCCCCTGGGGAATTCCAGGGTCACTGTTCCTTCC
ESTD-			CAAGCCAGCTCCAGGCCAGAAGTGGGACTGTGAGGACATGGAGGCCTCGGCACTGAGCTG[C/G]AGA
ADAb	196 C G		CCGCAGACCAACTCCTGAGCTTTCTGGGCCTCTGAGTCTTGTCCTC
			ACCATCTTATACTATGGCAGGTAAGTCCATACAGAAGAGCCCTCTCTCCCTGGGATTTGAGTGGGGTC
			CCCAGCTCCACCCAGAGGCCCCTGGGGAATTCCAGGGTCACTGTTCCTTCC
ESTD			CAAGCCAGCTCCAGGCCAGAAGTGGGACTGTGAGGACATGGAGGCCTC GA GCACTGAGCTGCAGA
ADAa	184 GA		CCGCAGACCAACTCCTGAGCTTTCTGGGCCTCTGAGTCTTGTCCTC
			TCTCCTGTCATTCCTACTCCATTAGTTCAAGGTCAGTGAAGAACTGGGGCAATTAACCAAGTAATTCA
ESTD			TEGACTECCCAACTECGAAACAAGAAGGGCGCAGTGGAGCAGGAGTATTATGCTACGCGGTTACCTT
ANT1	160 T C		TTTTATGGAGGACCGAACTGAGGC[T/C]GAGCTCAGATGATCCTGT
			TGCCTGGGGTGGCAAGGCTGCAAACAAGAGGGCAACCCAGGAGGCTTTTATGAAGCGGGCCATGGTA
EST10398			AGATGCTGCCACCTCTTATCTACTTGATGTTCACATTTGGGGCTTGACTTTCCAACACGGAGAAG
2b	168 A'G	:	CATTGTTTTCTTCGGGCCAAGAAGGTATCTACC/A/GJATAGTGTCTATTAGGCATTTG

				TGCCTGGGGTGGCAAGGCTGCAAACAAGGAGGCAACCCAGGAGGCTTTTATGAAGCGGGCCATGGTA
EST10398				AGATECTECCACCTCTTATCTACTTGATGATGTTCACATTTGGGGCTTGACTTTCCAACACGGAGAAG
2a	147 C			CATTGTTTCTT[C/T]GGGCCAAGAAGGTATCTACCAATAGTGTCTATTAGGCATTTG
ESTD-C7	14 G		•••	ATATCGTGGCCTTA(G/CJTTACCTAGAGCTGGACAATCCTGCTGGA
ESTD-			_	CTTTCATGCACGATAGGCTTTCTCTACTAATCACAGAATTTTGAGAAGAAGAAACAACTTTCAAGG
D4S95	90 T	-	•	ATAATGGGGCAATCACTTTCTTTTTTTTTTTAGAGTCTACCGG
ESTD-				
GPPK2L	38 G/	A	:	AGTOTTCATOTGCGGTGTCCAGGTAGATCCCTTTCACC[G/A]CCGAGAACTGCTCGATATC
ESTD-		_		CTGGGCTCGCCCAGCAGCTGCTGGCACCTGGACGCCGGCCCAGGCTCACCTCTATAGTGGGGTCG
HRASb	82 A	<u>ت</u>	•	TATTCGTCCACAAA(AG)TGCATCTGGATCAGCT
ESTD-				CTGGGCTCGCCGCAGCAGCTGCTGGCACCTGGACGGCTJGGCGCCCAGGCTCACCTCTATAGTGGGG
HRASa	37 C	Т	•	TCGTATTCGTCCACAAATGCATCTGGATCAGCT
ESTO				GGAGGCAGGAGGTGGGGGGGTCTGTCTGCTCCAGGTCCCACAGACCAGAGAGGGGCCTCAGTG
NRAMP	81 A	<u>.</u>	,	TATCCCCACCCCCA(AGITGTGGGCGCTGGGAGATGAAGAGGAGTTGATGCAGGT
				GTGACCTTCTCACTTTAA[A/G]AAACTTTACCGGAGAAGAAATTAAATATATGCTATGGCTATCAGC
ESTD-OTC	18 A	 	,	AGATCTGAAATTTAGGATAAAACAGAAAGGAGGGTATGTAACA
EST36751				CCAAGTCGTTCAATTTTAGCTTTGCAGGTTTTAACT[C/T]GATTACTTTTCTATTCAAATCTCTGTA
7	36 C	 L	:	AAATTGAAATATGAACTTAGTTTTCTGATCTATGGTTTCAAGTTAAACAG
				CACGTGGAAAGGAGCTATTTTGGAGGCTTTAAGAGTAAAGAATCTGTCCCCAAACTTGTGGCTGAC
				TTTATGGCTAAGAAGTTTTCACTGGATGCATTAATAACAAAT[A/G]TTTTACCTTTTGAAAAAATA
				ATGAAGGATTTGACCTGCTTCGCTCTGGAAAGAGTATCCGTACCGTCCTGACGTTTTGAAACAATACA
EST40562 109 A	109 A		•••	GATGCCTTCCCTTGTAGCAGTTTTCAGCCTCCTCTACCCTA
				GCTCTCTATACCCCTGTGGTCCTCCCACGCTCTCTGGACTTCACAGAACTGGATGTTGCTGCTGAGAA
				GATTGACAGGTTCATGCAGGCTGTGACAGGATGGAAGACTGGCTGCTCCCTGAJC/TJGGGAGCCAGT
EST18288				GTGGACAGCACCCTGGCTTTCAACACCTACGTCCACTTCCAAGGTAAGGCAAACCTCTCTGCTGGCTC
က	121 C	 	•	TGGCCCTAGGACTTAGTATCC
ESTD-AK-				GGGAGTGACAGCTAGAGCACCAAGGGGGGCT[C/T]TACAGCTGTGTTCTCATGGAGGACAGGCTTCT
168	310			GCTCATICTGG
				AATCCCAGCACTTTAGGAGGCTGAGGCAGGCATATCACCAGAGGTCAGGAGTTTGAGACCAGTCTGA
				CCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAATTAGCCAGGCATGGTGGTGCATGCCTGT
				AATCCCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGCG[A/G]AGGGTTGTGGTGAGCCGA
ESTD-ALB 180 AIG	180 A	G	•	GATEGCACCATTGCACTCCAGCCTGGGCAACAAGAGTAAAACTCTGTCTTC

	-			TOTOTONOONALLANGER CONTRACTOR CONT
				ICCCGCCAGCCAGCCAGCCGGCCGGCCGTCCTTGAGCATAGCCTGGACCGTTTCCGTATAGGAGG
EST70523	182	<u>;</u>		ACCGTGTAGGCCTTCCTGTCCCGGGCCTTGCCAGGGCCAGCCCT[G/T]CAGAGAGAGGGGTCCCTGT
		-		CCAGGTGTTGTGGCACGTGCCTGTAATCCCAGCTACTCGGGAGACTGAGGCATGAGAATCTTTTGAAC
ESTD- APOA2	101 C	Т		CGGGGGAGGCGGAGGTTGCAGTGAGCTGACATCG[C/T]GCCACTGCACTCCAGCCTAGGTGACAGAGC
				CAGTGTATCTGGAAAGCCTACAGGACACCAAAATACCTTAATCATCATTGGTTACAGGAGGCTTT AAGTTCAGCATTTGGCTCACAGAGACC/IICTAGAAGATACACGAGAGAC
EST58707	112 C	T	•	CGAATGTATCAAATGGACATTCAGCAGGAACTTCAACGATACCTGTCTCTGGTAGGCCAGGTTATA GCACACTTGTCACCTACATTTCTGATTGGTGGACTCTTGCTGCTAAGAACCTT
				AGACCATGAAGGAGTTGAAGGCCTACAAATCGGAACTGGAGGAACAACTGACCCCGGTGGCGGAGG
EST74167 6	137 C		ļ	OGTGCGCGCCCCCTGGTGCAGTACCGCGGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGGAGC TGCGGGTGCGCCTCGCCACCTGCGCAAGCTGCGTAAGCGGCTCCTC
				CGOCTGGTGCAGTACCGCGGCGAGGTGCCATGCTCGGOCAGAGCACCGAGGAGCTGCGGGTGCG
EST43211				TGGCAGTGTACCAGGCGGGGGCCCGGGGGGGGGGGGGGG
80	132 C	•		GGGCCCCTGGTGGAACAGGGCCGCGTGCGGCCCCCCTGTGGGGCTC
				GGAAGAAAATGGAGCCTGTGGGAAGGAGGCGTCCGAGGGGTGGGCTTTGTGGCAAGCCCCTTGCTGA
ESTD-				AGCAGAGAGACA I GAAGAACCAGAAGCICA I CCACAI CICIGACIGACIG CACAACACAI CAAAGCII GGCCAGGGGACACACCAATGGCACAAAGCCTCTGGATGGCTTCGACGTGTGGAAAACCATCAGTGAA
	126 A			GGAAGCCCATCCCCCAGAATTGAGCTGCTGCATAATATTGACCCAAAC
				TGTAGCCAAAGTCACCTGCATCATTTGGCTGCTGGCAGGCTTGGCCAGTTTGCCAGCTATAATCC
 EST36770				ALCGAMATETATION TO A GAGAMAN ACMATATA TANGAGITT CONTROLLA GAGAMAN AT COMMON A MANAGAMAN AT COMMON A MANAGAMAN AT COMMON A MANAGAMAN A MA
4	144 C	:	•	TCTTACAAGTTATACTCTTATTTGGAAGGCCCTAAAGAAGGCTTATG
				TAATGTAAGCTCATCCACCAAGAAGCCTGCACCATGTTTTGAGGTTGAGTGACATGTTCGAAACCTGT
FST26021				CCATAAAGTAATTTTGTGAAAGAAGGAGCAAGAACATTCCTCTGCAGCACTTCACTACCAAATGA
	137 A		ŧ	TCTGAACAAAAGCTTTTCTTTCCTTTTGCAACAAGACAAAGCAAAGCC
				GGGCAACATAGTGAAACCCCATCTCTACAĮA/GJAAAATACAAAATTAGCCAGGTGTGGTAGCAAG
ESTD				TGCCTGTAGTCCCAGCTACTTGGGAGGCTGAAGTGGGAGGATCCCTTAAGCCTGGGAGGTGGAGGCTG
BA511	29 A G	 G		CAGTGAGCCAAGATGGTGCCACTGCA

				AGCTGGATTATAACTCCTCTTCTTTCTCTGGGGCCGTGGGGTGGGAGCTGGGGCGAGAGGTGCGTT GGCCCCCCGTTGCTTTTCCTCTGGGAAGGATGGCGCACGCTGGGAGAAC(A/G)GGGTACGACAACCGGG
ESTD- BCL2	116 A G		;	AGATAGTGATGAAGTACATCCATTATAAGCTGTCGCAGGGGGCTACGAGTGGGATGCGGGAGATGT GGGCGCCGCCGCCCCGGGGGCCCCCCCCCACCGGGCATCTTCTCCTCCCA
ESTD-BCR				CAGTGGCTGAGTGGACGATGACATTCAGAAACCCATAGAGCCCCGGAGACTCATCATCTGCGCAAGA GA[C/1]CAAAGAGGTCAGCTTCTGTTGTCCCGGGAAAGGGAGGCAGGTGACAAGGTAACTCTGCTTC AAAATCAACCATCCGGTGGACACTGTGTGGCTGCCATCTGCCTGGCACA
ĘS Ę				AAGAAGAGAAACTAGAAACAGTTTAAAGTGTCTAATAATGCTGAAGACCCCAAAGATCTCATGTTAA GTGGAGAAAGGGTTTTGCAAACTGAAAGATCTGTAGAGGAGTAGCAGTATTTCA(C/TJTGGTACCTGG TACTGATTATGGCACTCAGGAAAGTATCTCGTTACTGGAAGTTAGCACTCTAGGGAAGGCAAAAACA
aa	119 CT			<u> </u>
ESTD- BRCA1bb	139 A G			ACTAAATGTAAGAAAAATCTGCTAGAGGAAAACTTTGAGGAACATTCAATGTCACCTGAAAGAGAAA ATGGGAAATGAGAACATTCCAAGTACAGTGAGCACAATTAGCCGTAATAACATTAGAGAAAATGTT TTTAAAG[A/G]AGCCAGCTCAAGCAATATTAATGAAGTTCCAGTACTAATGAAGGGCTCCA GTATTAATGAAA
ESTD.	() <			ATGCATCTCAGGTTTGTTCTGAGACACCTGATGACCTGTTAGATGATGGTGAAATAAAGGAAGATAC TAGTTTTGCTGAAAATGACATTAAGGAAAGTTCTGCTGTTTTTAGCAAAAGCGTCCAGA[A/G]AGGA GAGCTTAGCAGGAGTCCTAGCCCTTTCACCCATACACATTGGCTCAGGGTTACCGAAGAGGGGCCA
,				ATCCTGAGCTCGCCAATAAGCTTCTTGGTTCTACTTCTCTCTC
0	122 A C	,	•••	CTCTACATCT
ESTD-C1R	40 A G	•	ţ	ACACAGGTGCTGGCACTGGGGGTTCCTCCCCCT[A/G]ATTTGCTCCGGGAAGCACATTCATCAA
ESTD-C1R	40 A G		••	ACACAGGTGCTGGCACTGGGGCTGGGGATCCTCCCCT[A/G]ATTTGCTCCGGGAAGCACATTCAT CAA
ESTD-C6	31 A C	•	•	CCCAGTCAGTTTGGGGACAGCCATGCACTG[A/C]GCCTCTGGTAGCCTTTCAACCATGCATTCCATC TAAGCTCTGCAAAAT
				GTTCCGAATCCTCCTCTGAAAGTGGCCGGGTTTAATCTGCTCATGACGCTGCGGGCTGTGGTCCAGCT GAGGTGAGGGGCCTTGAAGCTGGGAGTGGGGTTTAGGGACGCGGGTCTCTGCGTGCATCCTAAGCTCT
EST20118	119 C			GAGAGCAAACCTCCCTTGAAGCTGGGAGTTTAGGGACGCGGGTCTCTGCGTGCATCCTAAGCT CTGAGA
EST53018 6	67 A.G		I	ACAATCCAGGTCACATTCCAGAAGAGGGGGGGGGTGGTCAGTGAGCCTGGGTAGGTCCAGTAATCCA

				GGCAAGTTTTTATTGATAGAGAAATCAAATAATGGCAATGAGGAGACATCACCTGGAATGTTAG GCAGTGCCTAACTGGGGGATGGACAATGGGCAGTGCCAACCCATAGGGJC/TJGGATACAAAAG
ESTD- CB22	119 C T	1	4	ACAGGCAAGGAAGGGGTAGAACCATCAAAGAGAATAGGCTGGTGACCCCAAAGCAAGGAGGACCT AGTAACATAATTGTGCTTCATTATGGTCCTTTCCCGGCCTTCTCTCTC
ESTD				TAGAACCATCAAAGAGAATAGGCTGGTGACCCCAAAGCAAGGAGGACCTAGTAACATAATTGTGC TTCATTATGGTCCTTTCCCGGCCTTCTCTCTCACACACAGAGCCCCTACCAGGACCAGACAGCT CTCAGAGCAACCCTAGCCCCATTACCTCTTCCCTTTCCAGAGGACCTGAAAAACGTGTTCCCACGA
CB23	136 C	1		GGTCGCTGTGTTTGAGCCATCAGAAGCAGAGATCTCCCCACACCCCAAAA
				ACCAGGACCAGACACCTCAGAGCAACCCTAGCCCCATTACCTCTCCCTTTCCAGAGGACCTGAA AAACGTGTTCCCACCCGAGGTCGCTGTGTTTGAGCCATCAGAAGAGATCTCCCACACACCAAAAG
ESTD- CB24	145 A		•••	GCCACACTGGTATGCCTGGCCACAGGCTTCTACCCCGACCACGTGGAGCTGAGCTGGTGGGTG
			_	GTTTICTTICAGACTGTGGCTTCACCTCCGGTAAGTGAGTCTCTCCCTTTTTCTCTATCTTTCGCCGTC
ESTD- CB25	146 A		!	ICIGCICICGAACCAGGCAIGGAGAAICCACGGACACAGGGGCGIGAGGGAGG
				TTTCTGTTTCCCTGAAGATTGAGCTCCCAACCCCCAGTACGAAATAGGCTAAAACCAATAAAAAAT
ESTD- CB27	125 C		· .	TGATTTAGGGAAAGCAGCATTCCCTTGGACATCTGAAGTGACAGCCCTCTTTCTCTCCACCCAATGCT GCTTTCTCCTGTTCATCGAAGACCCATTTCCATACC
				TTTCTGTTTACCTTGTTCAGATCCTTCAGAGGAATCCCTATATATGGCAGGTATATGA[A/T]ATGTA TTTCTTAAACAATAAACTTGAAAGTCCAAAATTACTCCTTGATCCATGGACTGCAGAATAAATGTTA
ESTD- D4S338	5.0 A	; 		TTTTAGCTGTCAGAAAACAATACTAGTCTTGCATATGTTCATCAGAGCCCTTGGGTGACCAGGTGT
ESTD-	8			CAGGCCAGCGTGGTCGAGGTGATCACCATCCCGGCAGAACAGGTCAGCCACCACTATGCJAGCA
CYP2D6	61 A			GGTTCTCATCATTGAAGCTGCTCTCAGGGTTCCCCTTGGCCTGAGCAGGGCCGAGAGCATACTCGG
				AAAAAAACATTTTAACACCTTTTCAATCATATACACCATA(ACJATTTCCATTTTTCACATAAGTCA
ESTD- D11S1873	40 A	1		ACAACTTTCCCAAGCATCTACGATCAGAAAGGTCAAAATATTACATATCTGGATTAAATTATGCCCA TATCTGCATGTC
				O 4
ESTD-		<u>_</u>		GGGTTGTGTGGTGGTGGTCTTGTGTAGACAJGGGGGCCTTTGGTTTCAGTTGCACTATTGCGTT
0000110	20.60	::-	:	IATTECAGATTGCTTTGCACCTGAGCCAGCCTC

				CATGCTG/C/TACAGGGGGGGGGGGGCGTTTTTAATCCTCTGACAGAAAGGCTCTGAGGGGGGCGTT
ESTD- D17S33a	75 C	-	- 1	GTGGGGTTGTGTGTGTGTGTGTGTGTGTGGGGGGGCTTTGGTTTCAGTTGCACTATTGCGTT ATTGCAGATTGCTTTGCACCTGAGCGAGCCTC
				TTTGAGACCACCCTGGCCAACATGGCGAAATCACATCTCTACCAAAATTACAAAATTAGCTGGGTGTGGTGGTGGTGGTACATGCTTAGCTGGGGGGGCTGAGGCAGGAAATTGCTTGAACCCGA
ESID- D18S8	133 A	:- &	,	/G GGAGGCAGAGCTTGCAGTGAGCCAAGATCACACCACTGCACTTACAGCCTGGGTGACACAGTGGA GACTCTGTCTCAA
				AACTGATTAGAACCTGAAAATACATATTTTATCTGAAAAAAGTCGAGTTATTGGCTCATCACATTGG
ESTD- D3S11	44 G		:	TTATTCAAACTATTTATCACTTATTTTATTGGTAAGCCATACTAAAATTCTAAAGCATGTTTCTGAAAG
ESTD-	1			AGGITCCACATTATTGCTGATGTTTGCTGATGTTTCQA/GGGAGCCTTGATGTCATTCTGTATCCCTCCTCAGGTATCCCACCTTGAGACGTACTTTTCAAAAACTCTCTACAGCCGTTGTTATTAATTCAAGGT
D3S12	37 A	 0	:	TGAACATAAAGTA
				GATCATGTGGCCCAAGTGGCAGAGCTACTTATACCATGACCCAGACCTGCTAGCAGAACATTTCCTGC TGAGTCTTATTCAAAACTGACAGCCATTTATGCCACCTGAAATATGGTCAGGTTACAGCTGTATTCCC
ESTD- D3S2b	247 C	:		AGAAGTGAAACATACTGCTCCTAGAAGCCAGAGTCATACTGGATGTTCTGTTTCGGTCTTCACGATGG
				GATCATGTGGCCCAAGTGGCAGAGCTACTTATACCATGACCCAGACCTGCTAGCAGAACATTTCCTGC
ESTD				TGAGTCTTATTCAAAACTGGACAGCCATTTATGCCACCTGAAATATGGTCAGGTTACAGGTGTATTCCC
D3S2a	248 G		•	CAGGTATGAAATAATAATCGTCCTTTATTTGAAGGATGCCGGTATGT
EGT				TGAATCTTAATTGCTATCTCTACAAAATGTATAAATCCTGAATCTGACATCTAGCCACCTCCATAGAT
D7S399	83 A		•••	AACTUCTAGAGACCOJAGIGTOTOCTACATOCTTTCACAAACATTTTCATGGACTCCATAC TAGAATATTTGAAGAAACAAACATGACAAAACATTTTC
				GTGGGGACACOGAGGGCTCCAGGCTGGGCGCTTGCACGTGTGGCTCAAGCAGCTGCTCGGCCTCCACT
				TOCATGGGTGTGGGGCCTGGGACCTCACTGTCCCTGGGGAGAGGAGGAGGAGTGGGGGAGGGA
ESTD-DMb	146 A		:	GAATGCTGATTTGAGGAAGGGGAGCAGCAGAACTTCTGGCCTGTGGGTAGGGGCCAGCTGCTTCCAAG ACCTCCTGATTTGAGGAAGGGGAGCAGCAGAGAGAAAAGAGAGT
				GTGGGGACACCGAGGGCTCCAGGCTGGGCGCTTGCACGTGTGGCTCAAGCAGCTGCTCGGCCTCCAC
				GITTCCATGGGTGTGGGGCCTGGGACCTCACTGTCCCTGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
ESTD-DMa	6610	<u> </u>		CAGAATGCTGATTATGTGGTGGAGAACCAGAACTTCTGGCCTGTGGGTAGGGGCAGCTGCTTCCAAGA
	, ;			I CATECOTOR I I GAGGARGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG

ESTD.				TCCCCAGCCCTATCGGTCATATTGGACTATGACACTGACGTCTCTCTGGAGAAGATCCAACCCATCAC ACAAAACGGTCACCACCAACCTGAACTCGCAGATGAATCCTGCCACACATGCTCATCCAAAAGCT
DRD1	154 CT			AGAGGAGATTGCTCTGGGG[C/T]TCGCTATTAAGAAACTAAGGTAC
				TCTGCCTTTGGTGCAGGAGGCTGCCCGGCGAGCCCAGGAGCTGGAGATGCTCTCCAGCACACAAAGAAAAAGAAAAAAAA
ESTD- DRD2	144 C			ACCACCCAAGATTGCCAAGATCTTTGAGATCCAGACCATGCCCAATG
ESTD-	(AAGACGATGGCCAGGATGAGCGCGCAGTAGGAGGGCATAGTAGGCATGTGGGCGGGC
240 1040	၂၀၅ ၁	;	!	TOTITICAGGATCCGCATCTGCGCCTGGTTGGGCATCGCTCCGCTAGGTGTCAGCGGCTCCACCAGCTGG
ESTD- ERBB2	ပ ၈	<u>;</u>		GGTGAGGGGGTGGTGAGTGCJC/TJGGGGGCCGGTGCAGACCCCCACGCGGGTGGGAGGACTTCA CCCCGCCTCACCTCCGTTTCCTGCAGCAGTCTCCGCATCGTGTACT
				ACTCACAGTGCTTTTAAGTGAAAATGGTCGAGAAAGAGGCACC[A/G]GGAAGCCGTCCTGGCGCCTG
ESTD.				GCAGTCCGTGGGACGGGATGGTTCTGGCTGTTTGAGATTCTCAAAGGAGCGAGC
ETS2	43 A			AGGGTAGGAGGGAAGGAAACAACCATGTCATTTCAGAAGTTAGTT
				AGATCCTGATGATTITITICCTATTITITICTAAATGTTTTACAGTTTGAAGTTTTAGATTTATGCCCA TGCTCCATTTTGAGTTAATATTGTGTAAAGTATGATGTTTAJAJGJGTCAAACTTCATTTTTTCC
ESTD-F9	111A	 Ø	:	ATAGGIAIGICCAAIIIAICCAGCACAAIIIGIIAAAACAAAC
CCTCO707		·		CTTCCTATGGGATTTGACTTTATTTTCTCCATTGTCTTACCTTTTTACAGGTGTTAATATAGTGAAAAGGAAGCTTGCAGGCTCATGAAGCTGACAATTACACAATTACACAGGAAGGA
5	144 A	:	•	CAGACGGAACTGAGCTCAGGGTAAGAAT
				CGCAGACCGGTCAGTGTGGGGAGTGTGGAGGGAGGGAGGG
				TTCCGGGGGTGACTTTCCCGTTCTGTGCTTGCAGAGAAAAGGCGGGAACACAGAGCCAACTGGCTAA
53.14 63.14	2000			GTGTAAGGGACCTCTGGTCGCACCGTGTCTGCTGCCCTGTTCAGCTGTCTGT
				GTTTTATGCATGCCAGCTCTAATGACAGGATGGTCAGCCCTGCTGAGGCCCACTCCTGGTCACCATGAC
				AACCACAGGCCCTCTCAGGA[A/G]CACAGTAAGCCCTGGCAGGAGAATCCCCCACCCCACACCTGGC
				TGGAGCAGGAAATGCCGAGCGCGCCTGAGCCCCAGGGAAGCAGGCTAGGATGTGAGAGACACAGTC
ESTD-GCK	(88 AIG	 G		ACCTGCAGCCTAATTACTCAAAAGCTGTCCCCAGGTCACAG

				GTGGGGGCAACAGTGGGAGAGAGAGGGGCCAGGGTATAAAAGGGGCCCACAAGAGAGACCGGCTC[A/1]
EST34088	62 A			AGGGTAAG
STD-		9		GACCCTGAGTACCTCCCTAGTGAGCAAGATGTGCTCCGATCCAGGGTCAAAACCAC A/G GGCATCATTGAAACCAAGTTTCCCTAGG
				GGGCTAAAATTTCCGAGCAACTTTGCATAGACTGTTTTATTTGACTTGACAGGATTGCTAGAGAATAGG
				CAGGGAGAGGAAGATGTGTTACAGTTTGTCAGAGAGAATAAAAAGGA AACC
ESTD-HT2 1	154 G	•	ŧ	AAGCGCAGTGAAGTTTTCAAACAAGACACCCTT
				AACACACAAGCCCCAGCGAGAATTGAACTCGCGACCCCTGGTTTACAAGACCAGTGCTCTAACCCCT
				GAGCTATGGAGCCCTCGTCGCTGTTGGTTTTTCTTCCTTTCATCATAAGATTGATGTTATGCTCCTA
			. 	GCATTCCGGCTACCGAATAGGATGTTAGCTTGAGTAAAATTCCAGGATATTCTCCTACAAAAIGAAA
ESTD-HT5 1	149 C	•	•	ACATITICGIGCICIGIAAATCCCICGAAAAGGITCI
				CTGAGAAACAATTGGCAAAATAAAGGAATTTGGCACTCCCCACCCCCTCTTTCTCTTCTCCTTGGA
EST37382				CTTTGAGTCAAATTGGCCTGGACTTGAGTCCCTGAACCAGCAAAGAAAAAAAA
2	124 A G	5		AATCACAGGTGGGCACGTCGCGTCTACCGCCATCTCCCCTTCTCACGGGAATTTTCAGGGGTAAACT
ESTD-				ACCCAGTGGAGCCCGCTCATTGCACGGTCTTGGCAGGAGGTGC[C/T]CTGGGAGAAGAAGGAAGATG
IGFBP1	43 CT	т		TTCCAGGGCACATAGCTTAGTGGAGACTC
				TTTACTATTTCAATGGATACAGAATTGTGGGAGTCACTATATTCCTATGAACAAAAATTCAGATTT
				CAGTGTTAAGTAATGTTGCCTACATTGTGTGAGTGACGGGGCAGTGGTGGATCCGAGAGTGTGGGGG
ESTD				TGCACGGACATAATGATTCAGAAAGCAATATGGAAAGATGAGTATCTATGGATACGAACTGAAGI
9-1	120 C			ATGTAAATACTTCACAAAATACTAATAAACGGAGTTGAATATAAAACCCA
	_			CAAAGTAAGCACCCAATAAATGTTAGCTATTACTATCATTATTATTATTATTATTATTATTATTTTTT
				AGATGGAGTCTGGCTCTGTCACCCAGGCTGGAGTGCAGTGGC A/G CAATCTCGGCTCACTGCAAGCT
				CTGCCTCCTGGGTTCATGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGAATACAGGCACCGGCC
ESTD-IL1A 110	110 A	<u>.</u>	:	ACTGTTCCCGGCTAATTTTTTTTTTTAGTAGACGGAGTTCACCGT
				CCACTTACAGATGGATAAATGGGTACAATGAAGGGCCAATAGCCCTCCCT
ESTD-IL1B	99 A G	ლ		GGGTCTCTACCTTGGGTGCTGTTCTCTGCCTC[A/G]GGAGCTCTCTGTCAATTGCAGG
				TOCAGGGTGGCTGGACCCCAGGCCCAGCTCTGCAGGGAGGAGGACGTGGGCTGGGCTCGTGAAGCATG
				TGGGGGTGAGCCCAGGGGCCCCAAGGCAGGGCACCTGGCCTTCAGCCTGCCT
		,		TJCCCAGATCACTGTCCTTCTGCCATGGCCCTGTGGATGCGCCTCCTGCCCCTGCTGGCGCTGCTGGCC
EST74082 134 AT	134 A	T	1	CTCTGGGGACCTGACCCAGCCGCAGCCTTTGTGAACCAACACCTGTGCG

				GCCTCCTCCTTCCAATTCTGTCCTATAGTTTCCTCTATTAAGTGAACTACATGCATTCTTTAGT
EST45311				GGATAGATGCACACAAACACACAAGCCATTATGGGGAAGGATCCACGTGTGTGGCCATATTGTAACACA CATTTTTCTGCAAATIC/JACCTCTTTCATTTAACAGCCCTTATTCAATGGCCTTTTTCTTTTCAGTA
	151 CT			GTACATACACATCTGTGTTGTTGAAT
			-	TGCCCCATCACGCGGCCGAGACATGGCTTGCCACAGCTCTTGAGGATGTCACCAATTAACCAGAAAT
EST65258				GGGACAGCTCCACTCTGACTGGCACAGTCTTTGCATGGAGACTTGAGGAGGGAG
	80 A G		:	GAGGTTAGGTGCGTGTTTCCTGTGCAAGTCAGGACATCAGTCTGATTAAA
EST38216				ATGCAGGATGAAGGTGGACAGGGAGGJATJGAGGGCCAACCTGTCATCCCAGGGCCTGCAGATGTCG
3	26 A T			CTGGACTATGGGTTTGTGACCCCACTGACCTCCATGAGCATCAGGG
				ATACTAGTACAAGTGGTAATTTTTGTACATTACACTAAATTATTAGCATTTGTTTTAGCATTACCTAA
				TITITICCTGCTCCATGCAGACTGTTAGCTTTTACCTTAAATGCTTATTTTAAAATGACAGTGGAAG
				TTTTTTTTCCTC[G/T]AAGTGCCAGTATTCCCAGAGTTTTGGTTTTTGAACTAGCAATGCCTGTGAA
EST62782	149 GT			AAAGAAACTGAATACCTAAGATTTCTGTCTTGGGGTTTTTGGTGCATGCA
				CCAAAGTTAAATAGTATTGGAGTTATCTGAGAAATTTTCCATGTCAGTGTTACCTTTTTGGCAATATT
				AAAGGAAGAAAATGCATTTTAAAGTAACTGCTAAGGTTTTTTCCATTAAACCACTATTACTTCTAAG
ESTD				AGAACTGTACATGACAAATATTGCCATTACATGAGATCAACTATGTAGIC/IJTGCTTTTTAAATAGT
q	183 CT	•		CTCTGCCCAGATACATCTCCCCTATATAAGTTATAACCAGTATTGATA
				CCAAAGTTAAATAGTATTGGAGTTATCTGAGAAATTTTCCATGTCAGTGTTACCTTTTTGGCAATATT
				AAAGGAAGAAAATGCATTTTAAAGTAACTGCTAAGGTTTTTTCCATTAAACCACTATTACTTCTA[A/
ESTD				GJGAGAACTGTACATGACAAATATTGCCATTACATGAGATCAACTATGTAGCTGCTTTTTAAATAGTC
a	133 A G			TCTGCCCAGATACATCTCCCCTATATAAGTTATAACCAGTATTGATA
				ACCCTCACCCCTCACCCTTAGCCCGTGGGAAGCAGGAAATCTCTCTC
				ATTGGACACCTTGAGAGTCTTAACAGCAGGGCCTGACATGAGACCTCAGACAGA
ESTD-				TGCTAGAGGTCAAGGGTCAAGACTAAAGGGGGCCAGAATGTTAAGTACAAAAGTGAGGCCCATAG
KRT8b	231 CT	•		GCTGCCTATCTCCCCGTCTCAGGTTTACCA[C/T]GTCAACATTGACACA
				ACCCTCACCCTCCCTTAGCC[C/T]GTGGGAAGCAGGAAATCTCTCTCCAAATCCATGAATACACATC
				GGATTGGACACCTTGAGAGTCTTAACAGCAGGGCCTGACATGAGACCTCAGACAGA
ESTD-				TTTGCTAGAGGTCAAGGGTCAAGAGAGTAAAGAGGGGCCAGAATGTTAAGTACAAAAGTGAGGCCCATA
KRT8a	21 CT			GGCTGCCTATCTCCCCGTCTCAGGTTTACCACGTCAACATTGACACA
				CACTTGTGTGTGTAGATCTCCTCAGTGGCCGCCTCTACTGGGTTGACTCCAAACTTCACTCCATCTCA
EST75099				AGCATCGATGTCAA[C/T]GGGGGCAACCGGAAGACCATCTTGGAGGGATGAAAAGAGGGCTGGCCCACC
9	82 CT	•		octtotottgeccetotttgaggtgtgg

ESTD.				GGGTGATTTTGAGGCTCAGTTAATATTTCAAAATTGTAACCGTAGCAAAAACTGCATTGGTALLIAGA AAAATAAAAAAATTTCCAATATGTAGTGCTGTGTTATACCTGCCTCTGCCATGCAGCATCATAGCCTGT
LF79 1	142 A G			GGGAACCIA/GIGGAGGCTTCCCTTACCACCCAGA
				GAGATCGGTGTGTGAGTTATTAGGCATGGTTACCTGTGATTCTCCCAATCTTGTGCGTTCCACCGATG
EST35879				AGAGTTG[A/C]ACAGATTCCTGGAAGACAGCAGCGGGATGGGGGCAGGAGAAGAGACTGCCTGGATGA
<u>.</u>	142 A C			A
			٠	TACACACTTTCCTTACCCATTCACTGAAAACGACT[C/G]GCAAACTGGAGCCTTGTAGGAATGGAGT
LMP2	35 C G			IGACCIICCCCAAAAGCCACIAIGAIAAGCIAIIGAIG
				TGTCAGTGTCCCCTAGGGGCACCTCACCACTCCCAGCTTCTTCAGCTCTGGCCTGTCCTGCTGCTGCTGCA
				AGGGTTTTGCTTAATTCTCAATTCAATGTCTTCATCTTTTAG(C/T)AGCTGTGGGGGTTTTGTTGTT
				TTCTTCTGTTTTTGCTTAGTATCTGACTACTTTTTAATTATAAAAAGAGATGTATCTAAACAAAAIAG
ESTD-LPL	113 CT		,	AGATTGTTATCAGAAGTTCACAACATTTATAAAAATTTTTTCACCTG
				TTGTCAGGAGTGTGCTGATGCTGCCTCCCCAGCTCTGTCCCTAGC[C/T]GAACTTCAGGACAACGTGC
ESTD-MCC	45 CT		i	AG
				CATCCATGTAGGAGAGCCTTAGTCAAGTGAATGCTGAGGAAGCAGTAAAAACAGCATGCAT
ESTD				TCTCAGGAAGTCTCTGTCTTTCCAAGGGTTTGGTCTAAGTTGCTGATTACC(C/TJGGATTTTTCTGACG
	118 CT		:	ATCTTTCAACTGCTAGAGCATCTGGTTCCTGTTTTAGCATGG
F	25 A G		-	ATTATCCAGATGAATTTACAAAACTIA/GITACCAGATCCCACAGACTGATATGGCTGGT
				AACATGGACTTGTATTTTGTACAAAAAAAAGTTTTTATTTTTCTAAAAAAAA
				AAATTTAAAGGGTGTACTTATATCCACACTGCACACTGCCT[A/G]GCCCAAAACGTCTTATTGTGGT
ESTD				AGGATCAGCCCTCATTTTGTTGTGAACTTTTTGTAGGGGACGAGAAGATCATTGAAATTCT
NFKB1	107 A G	•		GAGAAAACTICTITTAAACCTCACCTTTGTGGGGTTTTTGGAGAAGGTTATCA
ESTD.				TGTCCCTAGGCCCAGCCCTGCTTGTCCTCCCTGGCTGTTATCTTC[A/G]GTACTGCAAAGAGAACACA
NPPA	45 A G	•		GACAT
				GIGITITICITAATCITITICCAGGAACACAGIGACCATAITICITITICIGCAGGCATATAGAATITIGGT
				GGGTTTTCTTTTATGTAGGGTGATATTGGATACTTTTGTTTG
ESTD				ACAAACCAGATAGGCAGAAATGGGCTTGAATAGTTAGATGCTTATTTAACCTTGGCAATAGCATTG
NRAS	202 CT			СЛУТСССТЕТЕВТТТТААТААААТ
				GCCACCACCACCCACCAGCACCTCCAACCTCAGCCAGACAAGGTTGTTGACACAAGAGAGCCC
·				TCAGGGGCACAGAGAGAGTCTGGACACGTGGGGAGGTCAGCCGTGTATCATCGGAGGCGGCGGG
-				CACATGGCAGGGATGAGGGAAAGACCAAGAGTCCTCTGTTGGGCCCAAGTCCTAGACAGAC
ESTD-PAII 100 A G	100 A G-	:		TAGACAATCACGTGGCT

			CTCTTCAGGAACCACCAGTCTTCTTACCAAACACGACTTATTGCTGTCCGAGAGGTACAACCGGTAGAACTTCTTCCTAACTGTAATTTAGTTAAAGGAATCGAAACTGGCTCTGAAGACATGGAGATACTGCCT
ESTD-PAR	120 A		AATCGACTGGCTTTCATTAGCTCTGTGAGTGTTTTCTTTC
ESTD-	(ACCTACAGACGTCGCTGGATGGTGTCCCAACCCCGAGGAATCTGAGAGCGAGAGGCAGGGCTGGCT
rei/on	5		GGAAAGAGATTTAAGAAGCTTGATTTGGA[C/T]AATTCTGGTTCTTTGAGTGTGGAAGAGTTCATGTC
EST68308			TCTGCCTGAGTTACAACAGAATCCTTTAGTACAGCGAGTAATAGATATATTCGACACAGATGGGAAT
വ	29 CT		GGAGAAGTAGACTTTAAAGGTAAGAAGTAGTTATTTTA
			GGAATATTAAAAATATTTTAAAATACCTCCATTTTGCTT[A/G]TCCTTTTAGTGAAGATGATACCTGC
EST54045			AAAAGACATGGCTAAAGTTATGATTG1CATG1TG6CAATTTG1TTTTATGTTACAAAATATGTTATTATCAT
	द		
			ATGAAACATGGTTCTTTAA1T11ATGATATGTTTGTTATAGCTATCTTAAAAGGGCTTCTTTTTTA
ESTD			ATGCAGAAAGAGGGGAAAAA[A/G]GAGCGAGCTGTGGTGGACAAGGTGTTTTTCTCAAGGCTCATAC
PXMP1	88 A G	•••	AGATTCTGAAAATCATGGTCCCTAGAACATTTTGTAAAGAGGTAAGTCTTATGAAATTATAATCTT
			CCCGAGGAATCTGAGAGGGAGAGGGGCTGGCTGGTGGAGAAGAGAGGGGTGCCGGAGAGCTTGGAAGG
			CCTTTCTGGAGAGTGTGAAGAAGCTGGGCAAGGGCAACCAGGTGGAAGCCGAGGGCGCAGACGCAGG
			CCAGGCCCCAGAGGCTGGCTGAGGGCCCCTGGGGCCCCTCCCCGAACACTGAGAAATAGTGCACT
ESTD-RDS	127 A		CCAAGAAACGTGGATCTCCCCTCATCCAACTCCGAAAGTCTGAA
			TTGGGAAGTTAGAGCCTATATTAAATTACGGAATTACTAAGGCAGGACACAGAGGCTTAATTGAAAA
ESTD			TATCCCAAAGTTGAAATGTCTCAGTTC[G/T]CTGTGTGGGTTAGATGCAGGATTTATATGATCCGTTA
s14544	94 GT	:	ACCTCT
EST52908			ATCACAGGICTCTGGTCTCTGGCCATCATTTCCTGGGAGAGATGG[A/CJTGGTGGTCTGCAAGCCCTT
0	45 A C	:	TGGCAATGTGAGATTTGATG
			AGGAGAAGCTGAGGAGGGGAAGAGAGACAAGAATGACATTGATGAGTGAAGATGT[C/T]GGCTCAG
EST19590	55 CT	:	GATGCCGGAAAATGAC
			TGAAGCTTCTGCCCAGCTTGCTTGTTTCTAGGAGAACCIC/TJGCGTCATACCTTTATCTATAGCCTT
EST76136	39 C T	1	CCCCTAGGTCTT
			TGAAACACCCTGTGGTCCGGAGCCAGGTTGTGTTTCTCCTGGGAGCCTGAGGAGTTTGTTGTCTGTGTG
			CAGTCCCCCGCGCCCACCTGCTGGTTGAGCCTGGACATACACCTTCACCTCCTTTGGCCCGGAGAGAC
ESTD-			ATTTACCCACCTGGCCATGTCCCTGGCCTGTTGTGCACA[C/T]CCTCTGTGAAGACCCCAACCCCTGC
SPTB	176CT		CTCCCCCACCCAGCCAGTTTCCTAGCAAGGGCAGGAC

		-, -	AAATGGTCAGGACCCTGATCCACAAGAGTGGTACCATTTCATCAGGGCCATCAGTTCATTCA
ESTD-TAT	224 C		ATTICCTCTCACCTAGAACGTTTGTTTACAACTTTTCTTCCCAGTATGGATGG
			TGCGGCCTTTCCTCCGGCAGGGTAGACTTCTTACTTGGCTGTTGATTTCCAAGAGAAAAAGAGGTCCCAAG
1H18	125 A C		CCACACTGGATTGGCCCAAACAAGTCTGAGTGCCAGCCCAGGACTCAACGGTCCCCCTGTAGATGGG
			TAGTGAAGTTTTCATCTCCTGTCAGCTTCTGGATTTCTTGTTCCCACCGCAACAAGAGAGTCTATGCCAAGAAAAGCTGGTGCTTCATGGGCAAAATCAATGTCTCTCCAGATTTCA[G/T]ATCCCCAA
ESTD-TYR	122 GT	!	GCAGTGCATCCATTGACACATAATAATGCATCCAGACAAAGAGGGTCATAAATATTGATGTCGTTAAA CATGGGTGTTGATCCATTTTTCATTTGGCCATAGGTCCCTATGGGGATGACA
			AGTAGTGGATGAAGCTAACCAGCCTCTCCCTCACTGATCAGTATCAATGCTATGCTGAAGAATATGAA
			AAACTCCAGAATCCTAATCAGTCTGTGGTCTAACAAATGCCCTACTCTTTATGCATTAGTATCACAA
ESTD-	222 A C		AACCACCTGGTTGAATATAATAGATTGAGTTATTAACTGTATTTCTTTC
			AGTAGTGGATGAAGCTAACCAGCCTCTCCTCACTGATCAGTATCAATGCTATGCTGAAGAATATGAA
		-	AAACTCCAGAATCCTAATCAGTCTGTGGTCTAACAAATGCCCTACTCTTTGACTTTAATTACTTTCTTT
ESTO		;	AACCACCTGGTTGAATATAATAGATTGAGTTATTAACTGTATTTTCTTTC
	0 0 222		TICCAACCCTCAATACAACTCTTTTCTTGGGATTACAACATCAGGGTCTGTTTGTT
			GGACACATGGATGCTGGAATCACCCAGAGCCCAAGACGTCACAGAGGACAGGAACACCAGTG
ESTD-			ACTCTGAGATGTCA[C/T]CAGACTGAGAACCACCGTTATATGTACTGGTATCGACAAGACCCGGGGGC
VB12	148 C T	1	ATGGGCTGAGGCTGATCCATTACTCATAT
			TTCCCAAGGCCTCAATACAAGTCTTTTCTTGGGATTACAACATCAGGGTCTGTTGTTTTCTATTACA
		-	GGACACATGGATGCTGGAATCACCCAGAGCCCAAGACACACAGGTCACAGAGACAGGAACAGTG
ESTD-		•••	ACTCTGAGATGTCA[C/T]CAGACTGAGAACCACCGTTATATGTACTGGTATCGACAAGACCCGGGGGC
VB12b	148 CT	::	ATGGGCTGAGGCTGATCCATTACTCATAT
			TTCCCAAGGCCTCAATACAAGTCTTTTCTTGGGATTACAACATCAGGGTCTGTTGTTTTCTATTACA
			GGACACIA/GJTGGATGCTGGAATCACCCCAGAGCCCAAGACACAGGTCACAGAGACAGGAACACCA
ESTD.			GTGACTCTGAGATGTCACCAGACTGAGAACCACCGTTATATGTACTGGTATCGACAAGACCCGGGGC
VB12a	74 A G		ATGGGCTGAGGCTGATCCATTACTCATAT

			CTCTGGATGGGTTCACAGGTGGCAGGCACAAGCCAGTCCATCTGTAGTCATCATAGTTGTTGGCTCC
EST58607	105 A G	į	TGGTTGCGGCCACGGCTGTGGCCTCGTTGTGAACGGTAGCCTTTGCGGTTGCGATGCCTAAACCTTTGT
STD-VWF	় ত		AGGTAGGAAAAGCAAAGAGTTGATTAGTGAAGGAGAGAATGGACCTACCT
<u> </u>			AGCACCACCTCTCACGTCAAGCCTCAGCACCAGATGCTGTTCTATAAGGATGACGTGCTGTTTTACAA CATCTCCTCCATGAAGAGCACAGAGAGTTATTTATTCCTGAAGTCCGGATCTATGACTCAGGGACAT
EST71770 6	189 C G		ATAAATGTACTGTGATTGTGAACAACAAGAAAAACCACTGCAGAGTACCAGTCGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTG
			TTCCTGCATCCTGTCTGGAAGTTAGAAGGAAACAGACCACAGACCTGGTCCCCAAAAGAAATGGAGG
ESTD- TNFAh	0.2 0.2 0.2	;	GCCCAGAAGACCCCCTC/A/G)GAATCGGAGCAGGGAGGATGGGGAGTGTGAGGGGTATCCTTGATG
	1		TTCCTGCATCCTGTCTGGAAGTTAGAAGGAAACAGACCACAGACCTGGTCCCCAAAAGAAATGGAGG
			CAATAGGTTTTGAGGGGCATGAGGACGGGGTTCAGCCTCCAGGGTCCTACACACAAATCAGTCAG
ESTD- TNFAa	88 A	;	GOCCAGAAGACCCCCCTCAGAATCGGAGCAGGGATGGGGGAGTGTGAGGGGTATCCTTGATGCTT GTGTGTCCCCAACTTTCCAAATCCCCGCCCCCGCGATGG
			CAAATTACAGGGTCAACTGCTATGATGTTTTGGAGCCCAGTCACCCTTTGGTGGCTACAAGATGTCG
EST52418	•		GGGAGTGGCCGGGAGTTGGGCGAGTACGGGCTGCAGGCATACACT[A/G]AAGTGAAAACTGTGAGTG
9	13 A G		301
			CCCACTCTATTTGCCCAGCCCCAGGGACAGAGCTGATCCTTGAACTCTTAAGTTCCACATTGCCAGGA CCAGTGAGCAGCAACAGGGCCAAGGGGGCTGGCTTATCAGCCTCCCAGGCCCAGACCCTGGCTGCAGA
EST13586	89 A G	<u>.</u>	CATAAATAGGCCCTGCAAGAGCTGGCTGAGAGACTGCGAGAAGGAGGTGCGTCCTGCTGCTGCTGCCTGC
			AGGCAGAAACTGGGGCCCCCATGCGGGGGGGGCGTGGAAGGCCACTTGAGCTTCCTGGAGAAGGACCTGA
EST51976			GGGACAAGGTCAACTCCTTCTTCAGCACCTTCAAGGAGAAAGAGAGCCAGGACAAGAATJCTCTCTC CTCCCTTCAAGGAGCAGCAGCAGCAGGAACAGCAGCAGCAGCAGCAG
	123 A T		GCCCTTTGGAGAGCTGCCCTGGTGC
			CCACTTTGGTAGTGCCAGTGTGACTCATCCACAATGATTTCTCCCAGTGCTCATCTTGTTCTCGAGTTTT
			CTCTGCCATGTTGCTATTGCAGGACGGACCTGTCCCAAGCCAGATGATTTACCATTTTCCACAGTGGT
ST11458			CCC[A/G]TTAAAAACATTCTATGAGCCAGGAGAAGAGATTACGTATTCCTGCAAGCCGGGCTATGTG
9	140 A G		TCCCGAGGAGGATGAGAAAGTTTATCTGCCCTCTCACAGGACTGTGGCC

ESTD. AT3aa	09	 	ŀ	AGACCTCAGTITCCTCTTCTGTAAAAGGGAAGTTTGTTCTTGGATCTCCATGGGCCCAGC[C/T]AGCA CTGGTGCCCTGTGAGTCTGTATCAGGTAGAGGAGATGGGACCAGGTGGAGAGAGA
852	, i			CGGTCTTCCTTCCAGGTATTGTTGCAGAAGGCCGAGATGACCTCTATGTCTCAGATGCATTCCATAAGGCATTTCTTGAGGAGAGGAGATGCATTGCATAAGGCATTTCTTGAGGAAAAGGAGATGCATGAACAGGAACACGTGAAAAGGCCTGTTTCCAGTGTTAAGGCATGCAAAAGGCCTCCAGAGGCTGCTATAACAGCAAAAGGCCTCCACAGGCTGCTATAACAGCCTC
	00 C1		1	ACCTGGTGTTGCTGGTGCTGTGGGTGAACCTGGTCCTTTGGCATTGCCGGCCCTCCTGGGGCCCCGTGG TCCTCCTGGTGCTGTGGGTAGTCCTGGAGTCAACGGTGCTCCTTAGCGGCCCTCCTGGGGGCCCGTGG ACCCTGGGAACGATGGTCCCCAGGTCGCCGATGGTCAACCGGACACAAGGGGAGAGCGCGGTTACCC TGGCAATAT
ST36027	120 A			AGTGACTTCCAAGGAAATGGCTACCCAACTTGCCTTCATGCGCCTGCTGGCCAACTATGCCTCTCAGAACATCACCTCTCAGAACATGCAAACAGCATTGCATGCA
STD- OL2A1cc	12 A		ı	AGAATGTATATAGTCCTCAAACTGGCCATCTCCATTTTCAGTCCAAAAGTTATACAGCTAGACAACA GTGGTGACATACGTTGCTATTTATGCTCTTTCCTGTCACTTTC[A/G]GGGTGTTCAAGGTGGAAAA GGTGAACAGGGTCCCGCTGGTCCTCCAGGCTTCCAGGTAAGTCAACTCAAGCATATACAATACTGCCT TTGGTCAGCCTATTGAGCTGTAAATCACCATACCGTACCT
ESTD-	2 2 6		·	TGAGAGAACACCTAGTCCTCCATCCTTCTCTCAATGGCAAGAAAGTTAAGTGACCTATCTAGGGC AATAGACTGAGTTTGCTGGGACCTGGAACA(C/TJTGGACTTCTTTCTACTGCAGCAGACAAGACTTA CCCAAGAGAGATTAATGGCAAAGATATACAATACA
	150 A G	 	ı	GCCGCAATGCCCGGGAGTTTCTCCAATGTGTGGAGAAGGCCTTAGAAGACATGTTTGATGCCTTAGAAGCAATGCTTCCTCATCCTTAGAAGCAAATCCAACAACAACATCCTCATCATCATGAAAAGCTGGAAAGCTACCATCCTCATCATGAAAAGAAAG
2274	135 A	; 9	:	CCCCCAGTTGACAGCCACTGCTCTAGACTAAGTTTCTTGCTTCCAAATAGAGCCTTACCAAAGTGTAT TACATAAAGAAGTCAAGTTGTTTACTCCTCATGACCAAATATTCTTTCCCTCCTTAGGATGAGGTG AGJTAGTAAATGACCGATGGGGTCAGAACTGTTCCTGTCACCATGGAGGATACTATAACTGTGAAGA TAAATTCAAGCCACAGAGCTTGCCAGATC
EST76807	91 G			ATGCTAAGGGGATCGGACATGAAAGGACCCTGTGAGCCGATTGTCCTATCTCCAGCGGCCCTGTCATC CAGCTCACTCATCATCATGGGCCCTGTCAGGCCCCTGGGCTCGGGCTCAGGGCCCTGCCCCTGCCCCTGGCTCATGGGGCTGGTGCAAGTTGAGGACTTCTTG

			TTCACTTTGTGGATTGTTTCTTTTGCTGTGCAGCACCTTTTCAACATGATGTGATCCCATTTGTCCAAGATTTTGAAAGAGAT[C/T]TTTGCCAGTCCAATGTCCTAGA
ESTD-	11107		GAGTITICCCAATGTITICTIGIAATAGTITICATAGTITIGAGGCCTTAGATTTAAGTCTITAATCCATII TTGATTIGATTICTGTA
			CTTCGTGACGGGAGGTCACGTCCTCCGCCTCTTTCATGGACATATGGATGAGTGTCTGACCATTTCCCCCTGCTGACAGTGATGACGAGGGGAGCTGTGTGCACTCATGCCCCTGACAGTGAGAACAGTGAAGAATCAGCTGGAGGAGCCACCTGGGGGCCACCTGAGGCAGCCACCTGAGAATCAGCTGGAGGGGGGGG
	109 A G		ACTOCGAGTOCGGCATGTCACTACCGGCAGTCACCGAGG
E A	70.4.6		AAGACCTACGTGAATGTTCACATGTGCTTAAAGCCTCCCTTCCTCTTACTCTCTGCCGCAGGATGTGCGAAGGCCCCCCGAAGGCCTCCTGAGACCAGGAAACGCCCCCCCAAGAGGCCTGAGAAACGCCCCCCCAAGAGAAAAAAAA
	i i .		GATAAGTACACTGAGGCCCCAGGAGGTTATTGCCTAGTAGCCCAACTGTGCATGCA
			AGCCCAGTCCCGGCCGGTGCCTGGGTCCCAACAGAGGGCCGTGGAGGAGGAGAGAGA
	100 C		TGGATGAG
EST44438 7	62 CT		GCAGCCAGGAGCGCTGCACCATGCOCCGCATAGATGCGGACCTCAAGCTCGACTTCAAGGCTTTCAAGGACTTTCAAGGACTTTCAAGGACTTCAAGAGCCGAGCTGGAGGTGGG
ESTD-			CCTTCTCATGCCCAGATGGAAATTCCAGTCCCTTCAGGATCTGCCTAACCTGTGACAGTCTAAAGAGTCTCAACCGTGGCTGGGAAGGGCAGGCTAATCCAA[A/G]TCTCTACCCGCAGCTTGCTCGCATACAG
1	103 A G		ACGGACAGTGTGGTGGCAACATTGAAAGCCTCGTACC
		-	TGCAAAACACACAAAATCTTCTCCAGATGCCCTATGGCTGTGGAGAGCAGAATATGGTCCTCTTTGCTCCAAAACACAGCAGCATACTCCAGAGAAATATGAAAGTCCA
EST12839	122 A G	:	AGGCCATTGGCTATCTCAACACTGGTGAGTGATTACTTGAGTAAGGGAAACTTGAATGTTATTCAAC TGGATTTCCAGTAGGTTTCAGTTTATGATATTATGATACTTAGCTTAG
			ATGCCTTGCCTTGGATTTCAGCGGCACAAGGCTCAGCTGAACCTGGCT[A/G]CCAGGACCTGGCCCTG
ESTD- CTLA-4	48 A G	!	GGTACTGGCGGGGGGGGGGTTGGCGGGGTTGGGAGGGAGG
	1		GATCAAGCAGTGCACACGGGTCACGATGGACCAGCTCTCCACAGTGCACCATGAGATGGGCCATATA
ESTD-ACE	96 CT	•	TGAGGCCATTGGGGACGTGCTGGCGCTCTCCACTCCTGAACATCTGCACAAAATCGGCCTGC
			CTTCTGCCTAATTTGAATGATATTGTTGCTGTGGGACCTGAGCACTTTTATGGCACAAATGATCACTA
EST54419			TTTTCTTGACCCCTACTTAC[A/G]ATCCTGGGAGATGTATTTGGGTTTAGCGTGGTCGTATGTGTTGTCTA
<u>в</u>	88 A G	<u>:</u>	CTATAGICCAAGIGAA

				GGGGAGTAAAACTTGGATTGGGAGATTTCATTTTCTACAGTGTTCTGGTTGGT
				ATTATTACTCCTTGCCATTTTCAAGAAAGCATTGCCAGCTCTTCCAATCTCCATCACCTTTGGGCTTGT
ESTD-PS-1	99 A G	•		TTCTACTTTGCCACAGATTATCTTGTA
				GECTGOCAGGGGTTCOGTGGGAGGCGGCCCTAGCCGGGCCCTGCTGGCGGCTGGCGGGTGCTGGCCACC
ECTL		•		GIGGGAGGCAACCIGGCGGCGCGGCCGACCTGGTGATGGGACTCCTGGTGGCGCCCGGCGGCCAA
B3AR	104 CT		1	CCTTGGCGC
				TCTCACACTGACCCCTTACCTTCATCCTCACCTCTGCTTGGTTC[A/G]AGCCCTCATCTTTA
		•		CAGGGATCCGCCACAGCATCCCCAACTGATCTGGCCTTAGGTCTTCTTCTCCAATCCALICLICAAAAU
WI-567b	48 A G-			GCTGCCACTGTGATCTTCCCAAAGGIGAIICIGAIGCIACCAICIIGCIICAAGCC
				ATGGAACATTTCTTCCATAATGAATGAGGTTCTCAATCCATTCACACATCCCCTTTCTGATAGATGG
				TATTGGAGAAGTAGACAGAGAAATTAAGTAGGCAATGCATGTTTGCAGGGGGTGGGGGGCTGTG
				ATCTGTGTATGTTAGTTACATGGGCACATATACGCTCATGTTTGTCGTCAGCCCACCAGAGAGTTCAGCCCACCAGAGAGTTCAGCCCACCAGAGAGATTCAGAGAGAG
WI-801c	58 GT-		***	CATTICIGCCACCTC
				ATGGAACATTTCTTCCATAATGAATGAGGTTCTCAATCCATTCACACATCCCCTTTCT[G/T]AGATGG
		•		TATTGGAGAAGTAGACAGAGAAGAAATTAAGTAGGCAATGCATGTTTGCAGGGGGGTGGGGGGCTGTTAA
				ATCTGTGTATGTTAGTTACATGGGCACATATACGCTCATGTTTTG1CC1CAGCCCACCAGAGAGAGAAAAAAAAAA
WI-801b	58 GT-			CATTICTGCCACCCTC
				GAAATTCACCTATACAAGAACTATTTTCTCTAATTATTTACATTAGTCTCATTATTCTGAAATATTAT
				TITITACA[A/G]TACCCTTTGATTATTTTGATTCATTTGTAACGAGAGATTACAATATCAGTAACGC
		, ,		TGTTCATTGATAGTGCTATCACAAATGTCTAAAATACTTTTGGGTCAACATCAAAATTAGAAAGAA
WI-1099b	76 A G-	•		СТТАСАААGTTTTATTGCTTTATGGTTTA
				AGGAAATGGCTGATACTCCTGGTGGCTTCATTATAGTAAAAGGAGATGTAATTGCTTGATGAGGCCTCT
				CAA[C/TITCTTAACTGCTGCCTTCAGTCAGTGAACATTTAATGAAGTCTACACAAATTAATT
				AAGTTGTAAATGCTGAATAAGCTTGAAATAAAGTGAAAGAGGTAAAGAAGAAGGAGACAACTGTGCTTT
WI-2529	71 CT.			TTAAGAAATAGAAGTCACTTTCATTAGAAATGGCTTTGGGGATGACAAGTA
				TAAGGGCCTGTCTCCCCCAGAGGCCCACGGGACAGAGAAAGCATCTTGATACCCAGGGCCACAAA
				TGAGCAATCCATAGATACTACATATAAGAGAGCCTGTACCCTATGAGGTAACCTGAGGATGAAGGA
				GTGAGTCATATTGGGTGGCAATTAAATGACCCAGCCTCCTCTCTAAGAAGACTTTTACATTTAGAC
WI-10088	WI-10088 205 CG	:	;	AGG C/G AGCAGAAGCAGCAAAGGAAAGGAAGT
		The second second second		

				GGGCAGTCCTGGCTGTAGTGGTAGACAGCACTGAAGGATGGAGGAGGAGAGAGA
WI-2625	98	G A	•	GCCAGCAAAG
WI-2924	5.4	54 GATAGG	GCCCTAAGTGT	GTCTTCTCTTA GCCCTAAGTGT TCTGTTGTCATATTTCCCTCTTTGACTCTGACCTTCCTAGTCTTCTTATAGG(G/A)ACCCTGTGATT TÀGG
			1	CCATTGTTGAGGTTGGGTTGGTTGTCATTCCCTCGCACTCAACAAGTGGCTTGTCTCAGTGC
		GGCTTGTCTCA	GECTTETCTCA CTTGTTGAGGG	CTTT[G/T]CAAGACCTTCCCTCAACAAGAATGTCTTTCCATGCTCCCGTGTTCTTTGAAAATTCGACT
WI-2939	72 (72 GT СТСССТТ	AAGGTCTTG	TTATCCTGAAAAACTCAGCTGCAGTGTTATCTCCGGTATAAAGCCACTCCTG
				CTTGCTACCATGCATTTCACAGCATACAACCCTCAGTGAAATGCCGTAAAACCCCCATTATAAAACAT
		GGTTATGCCGC	TCAAGTATTGC	GGTTATGCCGC TCAAGTATTGC CTTGCCATCGAAGGGGTTATGCCGCAGACGAG[G/A]CCACACAAGGCAATACTTGAAGTGACTTGGA
WI-3203	66	G A AGACGAG	сттететее	GAATAAAGATTTTGGATGGATGAAAGCAGAGAAGGAGATGCTAAAAGTGA
		AAGCATTTTA	AC	GGAAAAAGAAACCTGAAGGATGAGTAGAAGTTAATTGGGAGATAGTTGGTGATAGGCCCTGTTTGGA
WI-3473	101	101 A G GCCCTAGGGA	CAACATTTTCT	GATTGCAGAGGAAGCATTTTAGCCCTAGGGAĮAGĮTAGAAAATGTTGGTGACATCAGGGCT
1				ACACACTITICTGTATGCTCTTCATCAAA[A/GJTGCAGGCGTCATTTCTGCACATGGTGATATTTAAG
WI-1796b	29/	29 A G	•	CAGGAGGATTGTCTTGGCTCCCC
				ACACACTITICTGTATGCTCTTCATCAAA[A/G]TGCAGGCGTCATTTCTGCACATGGTGATATTTAAG
WI-1796	29 A G	4 G	***	CAGGAGGATTGTCTTGGCTCCCC
			GAGAGATATTT	GTAGTCACATT GAGAGATATTT AGTCGTCCATCTTCAGGGTCTAACTCTGGATCTGGCCTGCAGAGAGTAGGAAAGAAGAAGGTGGGGTGAGT
		AGGTATTTCC	TTCAGAGGCAT	AGGTATTITCC TTCAGAGGCAT AGTCACATTAGGTATTTTCCAAATAA(C/T)AAAATGCCTCTGAAAAATATCTCTCCCATGTCCCTGTG
WI-4360	93	CTAAATAA	тт	TAAATATAACATTTTCCC
				GCTGAGCTTTGTGGCAGAGCCAGGGACAATTCAGCTGCCGGATTTTAATAGATTCTGCAGCACTGCAA
WI-1959b	87 CT	 	-	CAGGAACCAAAAATCAGTCJC/TJGGGTAACTGAGAGTGGTTTTCACACCCAAA
				GTTGTGCCTGTAGCAGACACAGAAGGCAĮA/GJAGAGGAAAAAAGCCTTTTTGGTCCAGGGGCTTACAC
				TGAATCCCTCAAACAATGCAAGATGAGCTAATGGTCTTAGAGGTATAATCTAAGTGTGAGAAAAACA
WI-1973b	28 A G	A G		AAGGTATAGGGTTTG
				CTTGAGTATGCGTGGATTTTGGTATACACAGAAATGGGAGAGGTGGAACTAATCCCCCCATATACCA
				AGGGACAAATTGTATCTGTTTCTACAATTATACAGTAGGAGACATTATGTTCCATGACAATGGTAAT
·				TTTTAA[C/T]GACAGTTTTTAATTGAGTGAAATTACCATAAAAATAATAATAGTAGCAGCTAATATT
WI-1980b 140 C T	140	C T		TACTGAGCTGTTACTAGGTGCCTATAAATAGC

WI-2015b 190 A G WI-754b 49 C T WI-754 22 T C WIR-1b 56 A G WIR-1 56 A G WIR-3h 72 A G	TGTCAGATAGTCCGTCTCTACCTAGGTGCAGTAGCTAGGAGCTATTAAAGTACACATTATGCT ATATATTTATACAATATACATTACTTGCAGATAGCATGACCATGCTAGTGAACCCCACAGGACTAT GTGTGAATCGTCTATTAGGGTTTGCTATAAACTCTACATGGTGCTTTTTCCAACT[A/G]CATATACTT CTAATACCATAGAG GAAGGCACAGGGAGAAGATGGCTGTCATCTACCAGCCAGGGAGAGACCC/TACATTTATTGGTAA TCCTATAAAGTGCATTCTTTAAAATTTGTATTTACTTTAGA GAAGGCACAGGGAAGATGGCTCTACTACAGCCAGGGAGAGAGA
56 A G 56 A G 56 A G	GTGTGAATCGTCTATTAGGGTTTGCTATAAACTCTACATGGTGCTTTTTCCAACT[A/G]CATATACTT CTAATACCATAGAG GAAGGCACAGGGAGAAGATGGCTGTCATCTACCAGCCAGGGAGAGAAGC(C/T)ACATTTATTGGTAA TCCTATAAAGTGCATTCTTTAAAATTTGTATTTACTTTAGA GAAGGCACAGGGAAAGATGGCTCTCTACCAGCCAGGGAGAGAAGCCACATTTATTGGTAA TCCTATAAAGTGCATTCTTTAAAATTTGTATTACTTTAGA
56 A G 56 A G 56 A G	CTAATACCATAGAG GAAGGCACAGGGAGAAGATGGCTGTCATCTACCAGCCAGGGAGAGAGCCTJACATTTATTGGTAA TCCTATAAAGTGCATTCTTTAAAATTTGTATTTACTTTAGA GAAGGCACAGGGAGAAGATGGTTCTTCACCAGCCAGGGAGAGAGCCACATTTATTGGTAA GAAGGCACAGGGAAAATTTGTATTTACTTTAGA
22 T C 56 A G 56 A G	GAAGGCACAGGGAGAAGATGGCTGTCATCTACCAGCCAGGGAGAGAGA
56 A G 56 A G	TCCTATAAAGTGCATICTTTAAAATTTGTATTTACTTTAGAAGGGAGAGAAGCCACATTTATTGGTAA GAAGGCACAGGGAGAAGATGGC[T/C]GTCATCTACCAGGGAGAGAAGAAGCCACATTTATTGGTAA TCCTATAAAAGGCATTCTTTAAAATTTGTATTTACTTTAGA
56 A G	GAAGGCACAGGGAGAAGATGGC[T/C]GTCATCTACCAGGCAGGGAGAGAGAGACACTITATIGG AA TCCTATAAAGTGCATTCTTTAAAATTTGTATTTACTTTAGA
56 A G	TCCTATAAAGTGCATTCTTTAAAATTTGTATTTACTTTAGA
56 A G	
56 A G	AGGCAATCAGACCTACAGAAGGAAACCCCAATAAAAACTCTGATGATCGTACATCC[A/G]TGCGCTG
56 A G	GAGGGTGATGCCTCCTGAGGACATGGGAGCTTCATGTTTGGAGCCCTCCCT
56 A G	AGGCAATCAGACCTACAGAAGGAAACCCCAATAAAAACTCTGATGATCGTACATCC[A/G]TGCGCTG
72 A G	GAGGGTGATGCCTCCTGAGGACATGGGAGCTTCATGTTTGGAGCCCTCCCT
7.2 A G	TAATTITAAAATGGGGCCAATAACACAGTACTTATCTCACAGCATTTCTCTAAAGGCTAAATAAGAA
72 A G	GAAGT[A/G]TCTAAAAGTTATTAGCTCAGAGCCTCACACATTCTCAGTGACTGATAAACAATAAGCA
	AAGCTGGGTGCTGAGATAAGA
	TAATTITAAAATGGGGCCAATAACACAGTACTTATCTCACAGCATTICTCTAAAGGCTAAATAAGAA
	GA[A/T]GTATCTAAAAGTTATTAGCTCAGAGCCTCACACATTCTCAGTGACTGATAAACAATAAGCA
WIR-3a 69 A T	AAGCTGGGTGCTGAGATAAGA
	GAGCCTTTCTAAAAATAAGGATTGTGACTAGCAACCTCCTGTACAGATTCCCTGCTCACACATGTGCA
WIR4 47 T	AGGCAGCAAATTTGCCCAGCTGCC
	CGGGACAGAGAGAGAGAGAGAGTTCTGCAGCATTCACAAGAGGTTATTAGGACTCAGTTCTGCTG
	TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCCAGAGGCCTGTGGTCCCACTGTTAGG
	TTTTGAAGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGAG
WIR-5g 209 C	TTTTACGTCCAG
	CGGGACAGAGAGAGAGAGAGAGTTCTGCAGCATTCACAAGAGGTTATTAGGACTCAGTTCTGCTG
	TGAGNCATCCACACTGGAGGATGAGAACACCCCAGCTGCAGCCCCAGAGCCTGTGGTCCCACTGTTAGG
	TTTTGAAGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGAG
WIR-5f 196 C	TTTTACGTCCAG
	CGGGACAGAGAGAGAGAGAGAGTTCTGCAGCATTCACAAGAGGTTATTAGGACTCAGTTCTGCTG
	TGAGNCATCCACACTGGAGGATGAGAACACCCCAGCTGCAGCCCCAGAGCCTGTGGTCCCACTGTTAGG
	TTTTGAAGGGAAGGCAAGGGTTAAAAAAAGACACAGAGAGAG
WIR-5e 194 C	TTTACGTCCAG

			C E C C E C E E E E E E E E E E E E E E
			CGGGACAGAGAGACAGAGAGAGAGTTCTGCAGCATTCACAAGAGGTTATTAGAACTCAGAGCTTAGGAGGCAGAGGCTGTGTGCCCACTGTTAGGATGAGACACCCAGAGCCAGAGCCAGAGCCTGTGGTCCCACTGTTAGGATTTAGAAGAGAAGACACAGAGAGAG
- PS-01/W	191 4	1	TTTACGTCCAG
			CCCCACACACACACACACACACACACACACACACACAC
			TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCCAGAGCCTGTGGTCCCACTGTTAGG
			TTTGAAGGGAAGGCAAGGGTTAAAAAAAGACACAGAGAGAG
WIR-5c	177 C	·	TTTTACGTCCAG
1			CGGGACAGAGAGACAGAGAGAGAGTTCTGCAGCATTCACAAGAGGTTATTAGGACTCAGTTCTGCTG
			TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCCAGAGCCTGTGGTCCCACTGTTAGG
			TTTTGAAGGGAAGGCAAGGGTTAAAAAAAGACACAGAGAGAG
WIR-5b	159 A	•	TTTTACGTCCAG
			CGGGACAGAGAGACAGAGAGAGATTCTGCAGCATTC[A/G]CAAGAGGTTATTAGGACTCAGTTCTG
			CTGTGAGNCATOCACACTGGAGGATGAGAACACCCAGCTGCAGCCCAGAGCCTGTGGTCCCACTGTT
			AGGTTTTGAAGGGAAGGCAAGGGTTAAAAAAAGACACAGAGAGAG
WIR-5a	37 A G	;	AGGTTTFACGTCCAG
			TAACCCTGAAACTTTGTCTTCCTCATCTCAGGGAACACAGACTTCATGTTAAGACCCAGAA(A/C)
WIR-6	63 A C	:	CGCAGTCTTGGGGGCAG
WIR-7	12 CT	1	TTCGTGACTATT[C/T]AAGCATCTGTAGAATATTGAATACATAGTCTTGAGATTGATC
WIR-8	46 CT	•	GGCGTCCTATGACTATCCTGGTCATTGACTAATGATTCCTG[C/T]GCCCTTG
			AAACAGAAAAATAGAGGTTATAAGGATGGAACTAAAAGTTGTCAGAAGAGGTATGA[C/G]CTGAAG
			AAAGAATTACTCTTTTTGACCAATAAATACAATTGGGAAACACTGGAAAACCATGGCTTGATTACT
WIR-2	56 C G	•	GACAAC
i i			TGTCCTTGCTTATGCCTGCCTCTTTCGCTTGGCAGGATGATGCTGTCATTAGTATTTCACAAGAAGTA
			GCTTCAGAGGGTAACTTAACAGAGTIGAJTCAGATCTATCTTGTCAATCCCAACGTTTTACATAAAA
			TAAGAGATCCTTTAGTGCACCCAGTGACTGACATTAGCAGCCATCTTTAACACAGCCGTGTGTTCAAAT
WI-7069	93 G A	:	GTACAGTGGTCCTTTTCAGAGTTGGACTTCTAGACTCACCTGTTCTCACTC
			GGTCATTTCCTTTTTATCTGTCAGGCAGCCAGCTCTGACTT[A/T]CTCTCTGTTTCTGTCATCTCTCCC
			CCACATACCAACTTCTTCACCATGATGATTATACCAATAATACAGI I CCI I AI AI GAGGGGGGGGGG
WI-18694	41 A T		AAATTAGACAGTGAAG
		TCA AAA TTGTATTGCTG	CCTATATITCA AGTITIGGAAA TIGIATIGCIG CACACTGTICACACCTATATITICAAGTITIGGAAATGC A/GJTATITGCAAGCAGCAGCAATACAAAAGTA
WI-18612	37 A G TGC	CTTGCAAAT	TTCATGAAGAATGCATAATCTCTGAAAATTATGAAAACATCCCT

WI-18517	87(CAGGAATCAG	4G TGTTTGGACAA GTGCAACA	TGTTTGGACAA TTAAAAAATCAACTAGGGCTCACCTCAACACCCCCCTCCATTTGTCAACCTCTACAGCCTGCATGCC GTGCAACA ACAGGAATCAGCAGCCTGA(C/T)TGTTGCACTTGTCCAAACACAACTGACTGC
		GGCGAAAAAC	TAAATTAAA GCACTTTT	GCTAAATTAAA CGATTGACAACCTTTTATTTTTCAACTTAGGTAACAGTCCAAAATCAGTGTAGATTGGCGAAAAACT CTGCACTTTTT AGGCAAAAAA[C/T]AGCAAAAAGTGCAGTTTAATTTAGCAAAGGCTCAAGACAGTATGTGGAAGGAA
WI-18668	26	76 CT TAGGCAAAA C	AA &	GGTGAGATTTCCCTCCTACT
		GCTGTCACTCT	CT	
WI-18680	757	75 T C A	SA CCTCCTGAATA TACAACGGAGC	AGCATCTGGA CCTCCTGAATA TAAAACATACGAGTACTGTACACGCAAGCATGCATCCCCTGAGTCTGAGTGAG
		аваттстα	CA TGAAGGCCCTG	GGGTTCTCCGA TGAAGGCCCTG CACCCAGGCTGTACCCAGGCTTTCTTGTGCGAGCACCACACCAAGGGCAGGTTGGGCTTGAAGGAGCC
WI-18704	66	A C GGGGTAC	വരം	CTTGAGGAAACACGGGTTCTCCGAGGGGTAC/ACJCCAGCAGGGCCTTCAGCTTAAAGTCG
				TGTGGGCAAACCTTGTTTAATTGCAAACĮA/GJACTTAATTTACAGCACATTCAATAATGAACCAAC
		-		AGGAGAGTTGCTGACTTTGTAACATATGAATATATAAAAATCCCTTGCAATTCAGGTAGTCAAGGTA
WI-18673	29 A G	4 G		AAAAGCGCATACAAGGAAG
			GCAAATACCAC	GCAAATACCAC ACCAGTCATGTTTTATTTGGAGGTTAATTCCTATTAGGATATGAAAGGATTCAGCAACGATTGAGATT
		GTCGTGGGC	GTCGTGGGGTG TGAAGAGGAC	GTGTTCCTCACGGAGGGGCTCCGGGCCAAGGTCGTGGGGGGGG
WI-18640	121	тсеве	А	AGTGGTATTTGCGGACC
-iM				GGGGAGAGGAGGTAGATTGCCAAATTGAGGCATTTTTTTAAACTCCCCGAGATTTTCTTCTTTATTT
18533b	91	тс	•	TATATTITCATTITCATCCTAA(T/C)TTACTGAAGCCATTITCTTTGGTTAACTTTAGA
-iw				GGGGAGAGGAGGTAGATTGCCAAATTGAGGCATTTTTTTAAACTCCCCGAGATTTTCT[T/G]CTTTA
18533a	- 29	59 T G	* 1	TITTATATTITCATTITCATCCTAATTTACTGAAGCCATTTTCTTTGGTTAACTTTAGA
		TCATCTGA-	TCATCTGATAC AACCAGGATA	
		СТВТСА	SAT AGGCTACAACT	CTTGTTCAGAT AGGCTACAACT GAGCATATGCTGCATGAGGACCTTTCTATCTTACATTATGGCTGGGAATCTTACTTTCATCTGATA
D11734	83	A C TTC	ATTT	CCTTGTTCAGATTTC[A/C]AAATAGTTGTAGCCTTATCCTGGTTTTACAGATGTGAAACTTT
				CAGGACTTGTGGTGCAGCTGCAGACACAGAGCACAGCTCATGGGCCAACATCACTGGGGCCCCAGAGAG
				AGCTGTCCGCCAGTGCATCATTAGGGGGGTCTTTCATTGCTAGTGACTAGCCCCTTAAATGCCAGCCTG
		CCTGAAGGAA	AA ACTTTCAGGCC	ACTITICAGGCC AGTACCTGAAGGAATCTGGGAATT[A/T]GCCCTGGCCTGAAAGTGGCCCATCATTCATACCCACTGTT
D49493	159	159 A T TCTGGGAATT	TT AGGGC	CT
EST10030		CATTITIG	тс есастествет	CATTITIGITIC GCAGTGGTGGT TATTICATAGAGGAGACCTAGGAGGAGGTTGACACAGCACACTGCTCAGCAGATGACTTAAAATTTT
7	98	T C TCTCAAGT	C TCTCAAGTCCC ATGGATGA	CCCTTAGCCATTTTTGTTCTCTCAAGTCCCT[T/CJTCATCCATACCACCACTGCTGATTTG
			TGTGGAACCTC	TGTGGAACCTC TATTTGGCTCACTTCTGGAGGCTG[G/A]GAAGTCTAAGATTGAGGTTCCACATCTTGTGAGGGCCTTC
EST10052		GCTCACTT(STG AATCTTAGACT	GCTCACTTCTG AATCTTAGACT CTGTTGAGTCATAACCTGGTGGAAGTCATGTGGCAAGAGAGAG
2	24	24 GAGGCTG	ဍ	A

ST10605				CTTGCGTAAATCACAGTTCTGTATTCATACAAAACTTTGTTTTTCTCTGACAAACTGTACATAGAAAAAAAA
7	5 3 8 -			אאאאאינעא וכיני
EST11048		CTCTCAAGTAG GCTAAATTTTC ATAAGAGGCA AGAAAGAATT	GCTAAATTTTC AGAAAGAATT	CATGTGTCAATCCCATGATGAAAAGACATGTTGCTCTCAAGTAAGATAAGAGGCATAATCT[T/G]AA
0	61	61 T G TAATCT	ттетт	ACAAAATTCTTTCTGAAAATTTAGCTTATGAACTCATTACACTGCAAAQCAGAGAAGGAGGAGCAC
EST11260				TATGGAGGCCAGAGGAAGTGACACTATATGTGGAAGTGCTGAAAGAAA
8	101			I CI AI AI CCAGCI AAAI AI CAI I I AAGAA I GAAAU GI I GAAAA I GAAAU GI I GAAAA I GAAAU GI I GAAAAA I GAAAAA I GAAAAAA I GAAAAA I GAAAAAA I GAAAAAAAA
				TTTGATGGAGAAATCCGAGGCCTGCCAGCATCCCCACCAGTAGATTTCTTTGGACGAAGAAATCCT
ST11349		ŀ		TCTGTGGATTCAGCTTTACCGCCTTTCCTCATCTGCTGGTGT[C/L]FFCCTCAGAGCFFTAATGFCCGFF
0	2			
		CCAACCTACTT	TCCAGCTTTCT	TCCAGCTTTCT GAATTCTGGGTATTAAATAGCGGGTGCCACAGGAGCACATAGGAAGAGCATCCAACCTACTTTGGAG
16632a	71	7 1 A G TGGAGCCCT		AAGGGAGGAAGGAGTGGGAA
200	-			
EST11772				CCAGGAATAAAAGAAAAAGAAGTCAGAGGAAACAGTCTTTGATGTTATGAGGCTGAGACACTACTC
9	74 A G	A G	;	TTCCTTCA[A/G]GACTATTCATTCTGACTATAAGTGAATAAATACATTGAAGACTTCAGGAGCTCA
EST11795	! !			CTTGTCCATTTATTTTGTGCATGTTGTTCTTAAAAGGCTTGTGAAAGATAACTTGGAATGTGGGAAAC
3	82	G A		ACATAGATCCCAGA[G/A]TATTAAAGGGGCTGGAAAAGTAGCCTTAAGAC
		CAATAAGCAG	ACTTCATGAAT	CAATAAGCAG ACTTCATGAAT AGAGCAATGGTGCGATCTCAATAAGCAGCTCATTTTGATTAC(G/A)GGTATACATGAAGTAAAATTC
		CTCATTTTGAT	CTCATTTTGAT TTTACTTCATG	ATGAAGTAAAATTCATTATACCAAAAAGCCTCCCACAGAACTTTCATGCACCCTGAGCTATGTGAAAC
WI-16644	42	G A TAC	TATACC	TGAAAAGTAACAGTGGGAT
		TTGTATAATA		
EST12005		ACACTCAGTA	GGCTGGTCACT	GECTGETCACT GCCTAGTAATTCCAAAAGGAACATGTTTGTATAATAACACTCAGTACAAAGTCTGT[A/G]ATCCAGG
6	56	56 A G CAAAGTCTGT	TCCTGGAT	AAGTGACCAGCCGACGTGTGCTATGACCCTCTGAACCTCCCATTICCATAGIIIIIGAAAIU
EST12055				GTGGAAAATTTTTTTATCTGTTACGTCTTTCC[T/C]ATTATATTTATCTTGTCCTTGATTTCAGCACCC
6	32	32 T C		CACCCGATTTGCAGGCCAGTGCTTTCTAAACTGTGCCCTGTGAGGCTGTTAAAAAGTCTTCT
				CCCCTAGCAAATGACTTGGAGTTGTGTCCAATTACCAAGTTACATACTGTTGCCAAAATTAAGCTCTC
EST12492				TTCCCCAGAGGCATTAACTGAGATTAT[A/G]GGAAACGCACAGCAAAATTGACGATGCAGCTTTTTA
16	95 A	A G		CCTTITA
EST12492				ATCTTGAGGTTTCTGGGCCTGTCAG[A/G]AAGTGACATCTTTTACTTACCACAGGTCAGGAACCCTAT
4		25 A G	:	AAAGAAACTGTGTAGAAAAGATATCAGGTCAGACTTTTTAAAGGGCTTCTTATCAGCTCAATAAA

	-			TELEGISTIC STOCK S
				ATAACTAGGGAGAAAACCAAAACTGGAGGCAAGTCAACAAAATTAAAAAAAA
EST12502				AAACAAAGTGGGTTTCGATGAAGAGAAAATGCTCACGGGGGAAAATGACCATTTTAAGGGCAATGA
8	52 CG	:		GTCGTCGAGGCAGTTAGAGG
EST12619	<u> </u>			CCAGAGAAAAATTAGAATGTATCGGTAAAAGAAATAGGAATGCATATTTCAACTCACTGTCACAAA
8	105 T		;	CAGGTGTTTTATTATCCCAAATGACAGTGTTGCCTGAGA[T/C]GATGCATGTGTGGGAGACGAG
EST12620				TTTCTTCTCTCCTTCATTTATTCATTTGTTCAAAACACTGTCTAGTACCAACATTGTCCACCGGGGC(A
0	67 A G-		!	/GJTTGAGAATACAATATTGAAGAAGAGTCACTGCCTGCCCTCTGGAAAAATCAGAGTATTTGA
EST12817	<u>:</u> :			TTGGGGTTCTCCAGGATTCCAGCAJCTCGTAGCTGATGTGCATGAGGTTCTCATCCATGCTCCACGG
98	22 CA			GTTCTTGGGAGTGACCGGGATGGGAATCCATGTTGCGTACTCCATCAGGTCATTGCG
EST12941				TCTCAGCTTCCACCTGACCTGCA[T/A]CAACAGCCCAGTTATTTCACCAGAATTTTGTTTGCGTTTCA
80	23 T A	1	•	ATGTAGTGTTTAGCTTTAATACACTGCACTTGTTTG
		GGCTTTAATCA		AGGATTTCATGAGGCTTTAATCATAACCTAATAATACTGTTAAAAACAACAC(A/GJTCTGTCACTTG
EST12949			тететссстет	CAGAGACCCACAGGGACACACATTCTCTTCCTCTCACATAGACTCTGAGGTAGGAGGTACACTGGCT
2a	52		GGGTCTC	AAGGAATAA
				ATTITITICITI AAATGAAGCATAATAAACAGTTAAAATTCTCAGAAAAATCATCTATAGTTGA
EST13067				GTGTAAAACTCCCCTAAATCAGTCTTCTAGGGCCACA[C/T]GGAGCAGAAGCAGCTTCCCACCCAAG
4	104 CT			CACCTCTGAACT
				TGCTGTCTGCATCAGTCCTTTTAAAAATTTAATCGCTTTATACAATTGACAATTAAAATGCAC[A
EST13117				/GJTATTTAAAGTTTACAATTTGAGAAGCTGACACGTGTCCATACAGACACACCTCATTTTACTGTGC
9	66 A	₀		TITACTG
				TCTGCTTTTAAAGATTCTTCATAGCTGCTTAGGTTTGTTCTTCCIC/TJAGCATATTCAGCTATAATCA
EST13121				CCTACATTCCCTCCACAAATATTTCCTGTGTGTGCCAGGCCAGTCTCCTCACTGTCCCATGAATAGCC
9	44 CT	;		AGTCTTATTTCCACTCT
				AACTGTTTACTAACAAAGGTGCTTTAATTTGAAAAGCATTTGAGGAAATAAAT
EST13226				GGCCATT[T/G]GACTAACCAGTTCTACAAATTTCACATATCCGTCACTCAGATGAGCATATACCAAG
9	74T	- B	•	TCAGAGGAAACAAACATG
				GCATCATCAGCGGCTTTTACTGAACTTACAACCAACTTGCCGCTCAATATGCAGCTCAGATGTGAGAG
EST13230		GCTCAGATGTG	GCTCAGATGTG CCGCCTCTGT	ACGC GAJITCTCTGTACAGGAGCCGGTACTGTCTTCAATCCTTTGCATGCA
9	72	72 G A AGAGACGC	ACAGAGA	AACAGTTTACTCCACAT
			ACAAGAGGTT	
EST13236			TGACAAAAGA	
9a	70	70 Tic TCTCAGGCCT	5	CCI[1/C]111GGATACCTTTAGTAGTTAACTCTCTTTTGTCAAACCCTCTTGTATAGACA

		CTTTCACCGAA	- 0011011410	CTTTCACCGAA CAATATTCACCGAA TATTTCACCGAATATTTTGACTTCCAAAACCTTTTCACCGAAAAAAAA
2a	51 A	51 A G G	GTGGTGAGAA	TTCTGTAGTTCTCACCACCAAGAATATGACAGCTTG
				GCTCACTAGATGAGCATTGACCAAATATTTAGATAATACCTGTTGGGAAAGTGCTGAATTACTAGCC
EST13282		CCACACATITC	GATGGAAAATT	CCACACATTTC GATGGAAAAT TGCCTGAGAATCCCACACATTICAGTCCAAAGA(WTJAACCTTCCTCAAATTTTCTCAGTCTCCACATTTCAGTCTCCACATTTCAGTCTCAGAGATAAAAAAAA
0	99 A	99 A L AGICCAAGA	I GAGGAAGGI GO	55
		CAATTTTAGA	AAATCACTTCA	CAATITITAGA AAATCACTTCA AGCTCATCTGCAAGCAATTTTTAGAAGTTTGGGTTTCTT[A/G]CTGAAATTTCCATGAAGTGATTTTTT
EST13290		АСТТСССТТ	TGGAAATTTCA	AGTITGGGTIT TGGAAATTICA TITICTGTGCTTAACTICAGTTACTTAAAGACCTAAAAGACAAAGTGGTATCACALCACAL
6	39 A	39 A G CTT	₅	ATGTGTGGGCTTTTTG
EST13518				GAAACATCCTCCAGTAGTATTGAGGTTAAAATGATTCAGCATTTA[C/G]ACTTTAAAAATTACCTCA
5	45 C	:: 5	-	ATGTTCCTCGGAGTCGTCCATAGTTTAAAATGACTTCTGCACCTTCCTT
FST13522				CAGGITGGTGATTCTCAACTAGGAGCTATTTTGCCCCCCATCCCCCACCCGGCAGTGTCTGGAGACIA
89	66 A		1	GIGTTTTGATTGTCACAACTGCGAGAGGTGGGTGCTACTGGAATCACTGGGTAGAGGCCA
				CTTTAAGGAAGTGAGCCAGATGAATCCAATGACCAACCTGGTTGAGAGCCATTGGTCTAGGAGTAGA
EST13568				AA[T/C]GCACACAAGGAATAAGGGAGAAGGAGGTTCGGTTAGTTGAGGGAGAGAAAGTTGGAAGCA
	69	-0	;	TTCAAGCTAAGTAAATGGT
				AAGATTACGGACCATAAGAACTGCCCCCGACCCATACACACAC
EST13785				CTGAAAGGAACAAAGTAATGACTTTCTTGAACAAA(C/GJTGATTACGAAAGTGAAAGGCTACAGGG
)	101	<u>ا</u>	:	TGATTACTA
FST14038	2			CCTCAACCATCTGTAACCCGAGCCC[A/G]CAGTGACCGGGACTTGCTGCTTCCCCATCCCAGCCCTCT
-	25 A G		:	CCTATCAGCATCCGCTAAGCGTCAGTCAGCAGGTG
EST14083				CAATGGTGTCCATGTGAACATAT[A/G]ACCTATTCATAAAGTTAAAAATAATCCCTTCTTGCAATCA
7	23 A	م ا		CAGTGCAAAAGGCATGAGGGTGAAAGTCATCTGCTAAAATGACCGAACAGGAGGGTAGGAGG
			GGAACAAGTC	
EST14221		GCATGCTAGA	AAAATATITIT	AAAATATTTTT AATATCAATGCATTCTTGTTGGCATGCTAGACAGAGGCATTA[T/C]TTTTGAAGATCTLLAAAAAU
2		42 TIC CAGAGGCATT	AAAAGA	ATTITGACTIGITCCCCCTTCACACTCATTITTAAATTGT
		СААСТСАССТТ		FAAAGATTTAC TTCACTTAGTACCAAGGATGCCTTTCAAGTCAGCTTCTACATTCTGAATA[A/G]AGTACATAATGGG
EST14812		CTACATTCTGA	TTAAATCCCAT	ITAAATCCCAT ATITAAGTAAATCTTTAGAAGTCCCGGAGTTTGCCTTTTCTAACATTTTCATATCAGGTGAAAACAAT
8	50	A G ATA	TATGTACT	TTTTCATATGGGTGATT
				TTTGCTTCGGCAATACATAGTGCGCAATGCAGCGTGAGTTCGCGCCGTCTCCCCACTGAACCAGTAAT
EST14815		CATCACCCACC	CATCACCCACC CGGGAAACA	TCACCAGACAATGGCGCACCACTTAAATAAACTTGCCCGTCATCACCCCACCATACTGGTT[A/1]11CC
9	128	128 A T ATACTGGTT	GTACCGGAA	GGTACTGTTTTCCCGTA

EST15420 6	109 C	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			TITIAACCCCAAGACTIGIAGAIGICAGGACTCCGAICATTITCTCTGCCTATAGCTIGGATATCTTA ATCTCTCCCCTTTGTCATCATAATCATATAGCCAAGGGACT[C/A]GGAATTTTGGCTGCTTCAAGTCA TTCCAAAACCTCTCAGG
EST15700 6	48	9	GAAAAGACAA AGACAACAGA G C GGA	GAAAAGACAA GGAATAGCTGA AGACAACAGA AACAGAGATA GGA	GTCACCAGCACTTTTATTAAGACGTGAAAAGACAAAGACAACAGAGAGGGGGGGG
WI-16739	57	ं छ	GGTTTTGCCAT 57 G A CACAAGC	GATAGTTGATG GATAGTTGATG GATTTTGCAT TTCATTATTCC CACAAGC CTATAA	AAGGATTGAAAACATACCTAGATCATATAAATTTGTGAAGGTTTTGCCATCACAAGG[G/AJTTATAG GGAATAATGAACATCAACTATCCTACAGCTAAACCTAATGAAGACCAAATTGCCTCCAAGGT
WI-16782	96) -	GTCT	CTTCTATCTTT CTGTTCCTCCA TC	CTTCTTCCTTCCTAGACGTGGAATACACGGATACAGTATCTGGAGATGTAGCAGCTGGCTCTTGAC CATAATGGTGGGAGTCTCACTGTAAGGA[C/T]GATGGAGGAACAGAAGATAGAAGAAGTTTGGGGT GCTGATGAAATTGTGGGG
			TCCTGAGATGT CTGCTTGGTTC	CTGCTTGGTTC	TCCTGAGATGT CTGCTTGGTTC AAAAATGTAAAACTTAGAGGTTGCCTCTTTTGTGTCACTTTTCCTGAGATGTCTTTTACCTGAG[A/G]
WI-16783	64	<u>₹</u>	AGG	9	CTAATAAGGATTGAACCAAGCAGTATTTTTTAATGGCAAAAGTCCAGATGTAACTCGAGT
EST15948	H au u	F		1	CAGGACTTAAGGTCATTTTGCCTGGAAGACTTTAACTAAAGGTCAGGGCAACATAGGA[T/CJTGTGA CAGCACCACTCGGACCAGGAAGTGCTGAAAATCGTCACACTAGCGTGCCCAGCCCTTTTTTCCTGGC TGCTCTGCCTCCCAGAGC
EST16088	3				GGTTTTGAAGACGCAGCTTTATCTCCACCTGCCACTGGGATTCTCATTTTGAGAGCTGTTTTGTCAGCC
ω	89	ଠା		•••	TTTCCAGAAAAGGCCGCTCGGCGGGTTTCTGAACCCTCTATGGGGCATTTTAAAAT
EST16089	96	<u>U</u>	; 	i	CGTCTGAAGETTTTTCTTTTATCACAAGTCACATCAATCCCTCGGGCCCCTGCTCAAATGCCACCTCTTCTTTGCT CTGAAAGCCATCCCTAAGTAGTCTCTCC/TJAAAGAGCCATCCCTGCCCCTTTCTTTGCT
EST16100	<u> </u>	- 7			ATCCCAGCTGTGAAGGGACAGGAGIC/GJGTAAACACAGTCCATTTATAAGGGGTGTGCACATTCCCAGGGGCTCCAAATGCAACATTGTTTCACTCGTCCATGCTGCTGATAGTTTCATAGTAAAAAAGTC
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ES116104 9a	83	A G	:-		CTGGTTCCTCCAGGGAAAGTTGGCCCCGAAGCTGGCTCAGTTCACCTCCAGGACCTCAGTC
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QQ	119	F	 C	•	CITTCACA
EST16118					ATGGTATAACAAAATCAGTTCCAGGTTTTTTT[C/G]TGAACAAATGATCCTTTGGTCTTTCCCGTGGCATGCTCCTAAAACAACTAAAACAACCCTCTACGTCTAATCAGTCACCTAAAGATGGGGGAAGT
0a		32 ci G	<u></u>	•	сттсаса

EST16151				AGCCAATTCAAACGAACTCTATCAAAACACACAAAGGCCTAGAGGAGAGAGA
2	53 C T	•	1	GGTCACGTTTTTGTATAGGA
EST16182	;			CATTGGTTGGGTAGGGAAAGATAGTGTGTGCAAATAAAATGGTAAAACAGCAGGAJGAAJTGGAA
Q.	2 2			CASCALANACTERCETTCACAACGTATTGTTCTTTCATAAAGAAAGAATATCTAGTTGIA/GIGTAG
FST16183			••••••	AGGAAGGCACTGTCTCCTGGCCCTTCTTCGTTCATATTTTATGTCACTGTCCTAACGTGGGCCGTGT
2b	59 A			GCAAGAGATCTTTGAGA
EST16198				AATCTTAGGCTCTTGGCTTTCAAAATCA(G/A)TACAGACAGATAAGAGCTTTAAGGTATTTCGCATTT
4a	28 G	A		CCCCAGAGGAAAAAGTCAGCATCATAAACCACATGGGTCACATGCTCACGCACATGGTGTC
EST16229				TGTGAACTCGAATTCGCTTGTCCAAGTCCTGAGTCACAGTTTCATTTGGGAGT/CJCCCTGTGCAGCC
2c	52 T		***	CTTGCCAGTTTCCACGAGGCAGGATACTCCACTAGCTGATTCAGACAGGCAGAGGCTGCA
EST16229				TGTGAACTCGAATTCGCTTGTCCAAGTCCTGAGTCACAGTTTCAT[T/C]TGGGAGTCCCTGTGCAGCC
2b	45 T C	<u>ا</u>		CTTGCCAGTTTCCACGAGGCAGGATACTCCACTAGCTGATTCAGACAGGCAGAGGCTGCA
 				CAGACTTTTCCTCACACCTCATTGGCTGGAACTGGGTCACATGCACATCCTTGAACTATCATTGGCAA
		GGAGCCATTGT	GCCTAGATTTT	GGAGCCATTGT GCCTAGATTTT AGGGAAATGGGTCATCAAAATTGCTTAAGGCCAAGCAGGAGCCATTGTTGGGGGTTA(A/G)ACTGTCC
WI-16816	124 A	Q	GTTCAGGACAG	GTTCAGGACAG TGAACAAAATCTAGGCTC
				GCCACTCTCCTGTGGCTTGCTCCTGTCCAGCTGCCAGTGCCACAGAATGGTCTAGCCTCATGG
EST16269				CAGAAGCATTTTAGCCAACTOCTGGTCTGCTCCACTCTTCCTTCCTTCCGCGCGCTGGGGCTCACCACC
5b	49	G A		TCTTCCTCCTCAATC
				GTCACCCCAGCCAATGCTTCAGGAATAAATGATGGTGCTGCAGCTGTTGTTGTTATGAAGAAGTCAG
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WI-16879	79 C		8	GCCATATTTCCCA(C/T)ATAGGACTCTAGTTCTAGAAAGCCTTGGGGAGAACAGGCACCCAG
WI-16882	00	GAAAATGCCA	_	GACACATGTCA ACATGAATGGCAACCTCTTAGGTGGGAGAAGACAATTCTCCCCCTTTCACCCAAAGGTTACTCTGAC AGGGTTACTCTGAC AAGGCTATGAATGAAAATGCCACGTCTCTGACIAGIGCGATTTACCTGACATGTGTCATCTCCCT
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WI-16905	75 C	75 CT GTTGTCA	ACTTGGCCTGT TCTAGGCAGTG GTTGTTCA GG	TITGTIGITIGITATITGCCTCCCAACATCAGAACATAGGTTCCATGAAAACAGGAACTTGGCCTGTG
		AAGAGTAAAG	CAAAATGAAG	
		SGCGCTAG	ГСТА	AGTITICAGTATGTGCTTAAGGAGGTTATATTCGCTATGACTTTCATCTCAGAAGAGGAGAGGTGGCG
WI-16910	74 G	74 G A A A	TAACAGA	CTAGAA(G/A)GTATCTGTTATAGAAACGATACTTCATTTTGGGCCTGAACCAGTGAAGGT
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		CATCTCAAGCC	TATTCAGTGAT	CATCTCAAGCC TATTCAGTGAT GAGAATTCTCTTATCATCTCAAGCCAG[T/C]CATCACTGAATAAGCCATAGTCCCAGTCTCGTTTTCC
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				TGCTGACTGTCATGACTTAGTAAGGCCATCACAGGTTGCCAGAACATCTACTCAACTGTTCCAAGCAT
WI-17074	98	 5		AACCICCIACAGGCCI[I/G]CIACAIAGGAGIAIAIIIGGCCAAGACICACCACTAGAAGIGAII
MI-				CAGATGAGAACTCATGCTGGCTCATCTGCAAGCTTCCTGATGCTTTGCGAGCTTTCCCATTCCAT
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			TTGTATTATAA	TTGTATTATAA AGCGTCCAACAGATGTTTCCATCAAGGACTTTGTTTTT/C)GTCTCTTCACTCTGCTATTTATAATAC
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		CATTICITIGE		GAAATCGAATACGTCCATTTCTTTGTAAAATAACAATAACGTT[A/G]AAGGCAAAAGCAAGATTCTG
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17180b	8 0	- 8	:	!	GGAGTC
			CACAAAATA		TCATGGACATCCTGAAGCAGACACAAAAATATAGAGAATCCTGCACTTT/CJCCCAAGTCTCGTCGCA
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17180a	47	2	47 T C TGCA	TTGGG	GGAGTC
		!	TGTTCTCTAAA CAAGAAATAT		TGAGGTAGCAGGCATTCTTAAGAAATGTTCTCTAAACTTTAGATATCTCCCAT[G/CJTTCCACAGA
			CTTTAGATATC ATATTTGATTC	ATATITGATIC	ATCAAATATATATTCTTGGTTGGAAATTITAAATGTTCTTAACIAICIGCCIACCAICCACCIOAA
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-iw					CAGGCAGTTAATGTGCTGACATAGTAACAAGGTTTGAAGGAGGAAGAACATCTCATGCACGTGCGTG
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17149a	48	$\frac{0}{0}$	48 C G AGGAGGACA	CATGA	GAAACCCCAATTGTCATGTGTATGAACTACAAAAGGATGGGGAAAAAGAACACATTTCCTCACA
			GCAGAAGTAG	GCAGAAGTAG GGTGAGGTGGT	ATTTTGCTATGTTGCCTGGGCTGGACTCCAGCAATCCTCCTGCCTCAGCAGAAGTAGCTGGGGCTAC
WI-17197	67	<u>ত</u>	G A CTGGGGCTAC	GCATACC	/AJGGTATGCACCACCTCACCCTGCTTATCAGTTTCGTTTAATAGAATATTTGACTTTTAGATGCGCA
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EST18753			CTACCCAGGCT	GGATCGCATGA	CTACCCAGGCT GGATCGCATGA TCGCTATGCTACCCAGGCTGGTCTCATIC/TJTCAGGCTCATGCGATCCTCCTGCCTCTGCAGTGGCTGG
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		TTCATATGGCC		TGATTGTGGGTCTGGGAGCAGGTGGGCAGTTCAGTGAGGAGCAGAGGAAAGTAGACGCAGTAGAAAT
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				GTTTAATGATCACCACAAAATCCACAGGAGAATCTTAAAATGTTTACAAGGACCAATTATTCTGCT
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WI-17470	83 A ((7)	GCCGA	TACCATCAGCCTTCC
		GTTGTCCTAGC AATTATTATT	AATTATTT	
		TAATGAATGC	TGCAGGCAATA	TGCAGGCAATA TTTTTAACGAAATCTCACTACTGCAAATGCATTGTTGTCCTAGCTAATGAATG
WI-17519	55 T	r C A	CTC	CCTGCAAAATAATTGAGATTCTATTTTAAGAAGCTTAGAACAGTACATGGTGCATAG
EST25356				TCTTTGATACAGGTAACCAGTTTTGTAACATTATTCAGAACTTCACTGTATCTTCAAGTTTTTGATAT
35	95 C	G	•	CAGCATCTCTGTGGAGAAAGCAGTGTGTCGTATAATGTCAACATCAGGATTTCTTTTT
EST25356				TCTTTGATACAGGTAACCAGTTTTGT[A/C]ACATTATTCAGAACTTCACTGTATCTTCAAGTTTTTGA
3a	26 A C	4 C		TATCAGCATCTCTGTGGAGAAGCAGTGTGCTATAATGTCAACATCAGGATIICTIIIII
wi-				GGGTGACGCTCCAGAATGGGAGACAAGCCAATTTGGGAGCAGATTGGATCCAGCTTCATTCA
17581c	99 C T	OT	•	ACTACCAGTTATTTGATAATGATAGAACCCAA[C/TJTAGGCGCAATTTACATTGACGCGTCATGC
		ATTCAACATT		
≴		ACTACCAGTT	CGTCAATGTAA	CGTCAATGTAA GGGTGACGCTCCAGAATGGGAGACAAGCCAATTTGGGAGCAGATTGGATCCAGCTTCATTCA
17581b	86	86 T C ATTTGATAA	ATTGCGCCT	ACTACCAGTTATTTGATAA[T/C]GATAGAACCCAACTAGGCGCAATTTACATTGACGCGTCATGC
		ACTTCCTTGTG	асттесттете саттеттата	
		TAAACACTCC CT	CTAGAAATCGA	ragaaatcga gtgtgctggtaaatggataatagcagtctctcatctgaagggtgggaagtaggagaagaagcctact
WI-17596		86 A.G.C	CAATAT	TCCTTGTGTAAACACTCCC[A/G]ATATTGTCGATTTCTAGCTATAAGAATGGGGCCACTAAGTGGGTC]

WI.17623	<u>ا</u>			TGTGGTTTTAATTTTAATTTCCCATATAATTAATGGTGGGCACATT[I/C]GCATGTGCTTACTGGGTC ATTCATATATCTTTTGTGAAGCATCTGCTCCAATCTTTTGCCTGACTTTGGAGTTTTTGGT
22011-111	2	<u> </u>		ATTICATACAGAGATACAAAGGCAACTATGTGCAGCAACAATCTGA[T/C]GGGCAGTCCAAACTTCT
EST26419	- C			TGGGAGGAAGTAAATTCATGGTAAATGTCATGATGGCTGGTTCGAGGAGAAGGTTCAAAGGAGGTAG
2) ·	COSONO		ATTCATACAGAGATACAAAGGCAACTATGTGCAGCAIAACAATCTGATGGGCAGTCCAAACTTCT
EST26419			CAAGAAGTTTG	TGGGAGGAAGTAAATTCATGGTAAATGTCATGATGGCTGGTTCGAGGAGGAGGATCAAAGGAGGTAG
1a	35		GACTGCCC	AGAGAGAGAGAGAATG
				TCAGCTTTAATTTAAGGGACATGTAAATAAAAAGATGCATTTGACAGGACAGCAGACTAGTTCAAGC
EST26780				AG[G/C]AGGTTAGACCAGTAACAACAACCAAGAAAGCAAAGTGCTCGTTTCCATCTTGGCTTTACCA
2	2 B 69	 		CACTTACAAACTGATACCC
EST26900				TACTTCAGTTTAAGGCAAATTCCACACAGAGACTGTCTQIAGJGAGACGGGCACAGAACCAGACACC
7	39 A G	4 G		GTAGAAACACCACCATGCATGACGGGGAAGCAGAG
				CAAAGGATTTTATTTTGTTCCCTAAAAGTAAAATCTAGAAAATAGCAACCCACTGCAAGAAGATT
EST27152				CTATACTAAAACATTTTCAATCATTCTCTCTTCT[C/T]TTCACATGGTGTACTCTTTCATGTACACAT
-	101 C		•	CATCGGAAAACAGACTGA
			GCACTTTGCAA GCTGGTGTGAT	TTTTGCACTTTGCAACAATTTAATAATTTATC(G/A)CATTACAGTAGCATCACACCAGCAGTCAAT
EST27504		CAATTTAATA	GCTACTGTAAT	CAATITIAATA GCTACTGTAAT AATGCCACTITIAGGCAAAAGTCTITCAGTATITCTGTTACACATTCTGTTAACAAGAACCCATACATT
0a	33	GAATTT	G	GGTAAAATTCATTCT
			TTATGGAAATG	
EST27662		CACATTCTGTT	GCTTATGTAAC	CACATTCTGTT GCTTATGTAAC ATCTTAAAGGACCATTAGAAAAGGCCAGTCACATTCTGTTCTCAG1C11G C/1JAGG11ACA1AAG
4	21	51 CT CTCCAGTCTTG C	O	CCATTICCATAAATICTATAGCC11C11AGAG1AACACACACICTIG111AGGAATG11C
EST27788				ATTITATTAGGCGGTACAATTCCAAGGTGGTAAGGGTGAAAGGAAAGGCGAAGGCGAAGGCAAATACAT TATTGAGCTGAAAACAACTTTACATTCAAGGAC(A'G)GCTTCCAGACAAGCCATGTAGAACCAGCAT
3	100 A	A G	•	GCCTTGGGACTGTGTGGAT
			GTGCAGAGAGG	
EST27828	1	GGAAGTCATC	TACTCCAAGTA	TACTCCAAGTA TCTTCTAAAACTTTCCTTCTGTTGGATCCCAGTGACGTGGAAGTCATCAGAACCCCAQ(G/A)GTACTT
4	28	G A AGAACCCCAC	O	GGAGTACCTCTCTGCACCAAGATAGCTGGCTGATTTCTGCTCAGTCACAATTTACTTGAA
		AATAAATTTC		TCAAGAAGGCC TAAAAATTTGAGATACATTCCCCAATGTAAACAATAAATTTCAATGTGAGGAGAATAAATTTGAATGTGAGAATTGIG/AJAAATG
WI-18369	58	58 G A ACAATC	TTATCCATT	GATAAGGCCTTCTTGACAAATTTCTGCCACCTCCGTTTAACGCATCAGAACTCAATCTTATCTC
				TCCCGCTTCCAAAAGCTTTATTGGCAAATATGCTCTA[T/C]AAAAGAATGATCAATCCTGTTGCCTCT
EST28036				AAGTCAATGGAATGAAGAGCTGTGTCCAGGGACACACCACGCCGTGCTGAAGGAGACTGCTGTTGTG
4	37	37 T C	:	TCCACCICITATICATAG

EST28483	31	GGAGTAAAAG GTGTTTCTTCT T A TTAAA	TTTCTCGCATT TATTTTATAC CA	CATTTGGAGTAAAAGGTGTTTCTTTAAA(T/A)ATGGTATAAAAATAAATGCGAGAAACATTAAC GGAGAATGTACAGACAACAGAAGACATGAGTTTGTTTCTGACTGTGACACATTGGTGAAAA
WI-17724	50	TGGGCCTCCC T	TGGGTTGGCAG TGTCC	GGGTTGGCAG AGAATTGGTCTAGTAATCGTTCAGGATTTCGGTGATGGCCCTCCCT
WI- 17730b	68 T	 0 L	:	TGAGCCTGGGGAGAAAGACCACAGAAGTGAGTGTTTAGTTACATCATACCAAGTGTACATACTG
WI- 17730a	39	GACCACAGAA GTGAAGTGCT 39 A C ATT	TCAACAGCCAT AAATCATGTG	CAACAGCCAT TGAGCCTGGGGAGAAAGACCACAGAAGTGATGCTATT[A/C]GTTACATCATACCAAGTGTACATA AATCATGTG CTGTTCACATGATTTATGGCTGTTGATGTTGACCTCAATAACCTGGCTGATGATGTACATA
EST29041 5b	53	GGAACAACA CATTAAGCAT 53 G A CA	GGTATTGTTGA TTTGAGGAGTT AGC	TACTCAGAAATGTGAGTTCATGTGAGAACAAACACTTAAGCATCATTGTCACT[G/A]GCTAACTCCT
EST29128	58 A		•	CTTTTAGAAGGACACCAGTCTTGTTGGACTTAGGGCCTACCCTATTCCAGCAGGTGCC[A/G]TTATTT TCACTTGGTTACGTCTGTAAGGACCGTTTCCAAATGAGGTTACAGTCACAGGTTCTGAGCAGACATGA GTTTGCTGGGGGACACT
EST29912	103	CT ACAGGCT TCATTCTTCTG		ATTTATTAGGTATCTGCTGTTGGGGGTGGGGTGGGGAGATTGTTTGAGATACTGCAACAGAAAAAAAA
EST29936	121 GC		1	TATTGGTATGCTTAGGGAAGATTCTGATTTAGAGATATTAAATCTTAAAAGTTAACTCACCATGAAA TTTAACCTTCTGTACTGGCTTCACTGATGAGGCAGTAAACTACATAGGGATAAA(G/CJAGCTCAGTA TCTGGAATCATGCTTCCTG
EST30223 2	99 A	 	•	AAATAAATACATCATGGGGAATGGGATATCCATCCCCTCAAGCATTTATTCTTTGAGTTACAAGCAA TCCAATTACACTCTAAGTTATTTTAATATTCC[A/G]GGATTTAATTTCTTCCTAGTTCAATCTTGGGA GG
WI- 16260b	86 GA	:		CTTTCCATTGGTATTAAACCTGCTAGAGGTTCTTTGTGAGGTGGATTCAAGAAGAAGAACCCAGA GTTTCACAATATAGGTAGCIGAIATAACCAGGTCTCACTTTCCTTCCGTGAGAACTTCGTGAAAA
WI- 16260a	59 G	TGAGGTGGATT CTACCTATATT CAAGAAGAAA GTGAAACTCTG	CTACCTATATT GTGAAACTCTG GGT	TGAGGATT CTACCTATATT CAAGAAGAAA GTGAAACTCTG CTTTTCCATTGGTATTAAACCTGCTAGAGGTTCTTTGTGAGGTGGATTCAAGAAAAAGTJACCC AGAGTTCACAAAAAAAAAAAAAAAAAAAAAAAAA
WI-17835	30 6	ACAGGAAATA TTGTGCTTTCT	TGGGGTATAGG	ACAGGAAATA TGTGCTTTCTTGTGCTTTCTTGTGCTTTCTTGTGCTTTTCTAATCCTATACCCCAATATCATAAGAATT TGAGGGTATAGG GTTGTTCTATAATGTTCAAATTCTTTTGCTTAATCAATCA

EST31951	87 C	G T CCAACA	CCCACCAAAAT	GGGTTGTCCAG CCCACCAAAAT ACAGCCATTTATTATTATTACTTGGTAATATCAGAGACTGAAACATTTCACTCTTTTAGCAATGACA CCAACA CACCTCC TCGGGTTGTCCAGCCAACACAJCAJGGAGGTGATTTTGGTGGGGAATTCTTATCACAATTATTCT
EST31968	- L			CGAATITIGICTCTCTTATTTIGIGATTCTAGTAATCCTAAAAGATTTGGGGGGGGGG
90	200	:5	•	
EST31968		GCGGGTTACTA TAAGTGCATTT	TGTAAGAATCA	GCGGGTTACTA CAAGTCCTAAAAGATTTGTCTCTTTTTGTGATTCTAGATATCCTAAAAGGATTTGGGGGGGG
8a	75 T	7 CT.	GTGGGCAGTT	ACAGTGGTACTGCTCCC
ESTSSOES				TCCATGGATGAACAGACGCTACCATGCCACATCCCCACTTCCCTCCGACCAGATGTCGTGGCCAGAGC
2	103 C	<u></u> <u>-</u>	1	AGTCATGTAGCACTCGG
				AAGGCTTTCCAAGCATTCAAAGGCCACTTGGGTGTTGTGCTCTAAGTTTCTGGTCACTGCAGCCCC(A/G
WI-16303	65 A G		ţ	ITCTGTATTAGGGAGCACCCCAAGCCCAGTAACAATATGGTTCTTGCAG
			TTTCCTACAAT	TGGACATGGGAGCACAAGAGAAACTCACT[C/G]AAGACTGGGATTAATTGTAGGAAATATTTCACAG
		GGGAGCACAA	TAATCCCAGTC	TTTCCACAAGTCAGAAGAGCTAATCCCAACCCTCTGTATCTGGAACATACACTGCTGCCATTTTCTGC
WI-17800	29 C	CGGAGAAACTCA	F	CCATGAAGGGAAATACCC
		CCTAAAGTCTG TTGGCTTAGG	TTGGCTTAGGT	
			GGATGACTTTC TCTACTTGATG	AAACTGTCATTCCTAAAGTCTGGGATGACTTTCCT/GJATTCTACATCAAGTAGAACCTAAGTCAAAT
WI-17857	34 T	ပ္	T	TCAGAATCAGAATCCTTTTGTCCATCAAATICCAGCIAACICCAAGCIGAAIIAAAIGIICAIIU
				GTATCTGATGTAGTTAACCATGGCCTGTCATGATTATATTGCTATAAGGAAGG
		\$	ACTAAGGAGC	TAGTGTCCAAAGATAATTCTTGGTTTAAATCTTTGCCAGCAAAGCAAATA[T/A]CCGACTGAC
WI-17860	121 T	121 T A AGCAAATA	AGTCAGTCGG	TGCTCCTTAGTCTGTGATC
		TITTATAGCCT	CCGTTGTCACT	
		ACTTCTCAAA AATCACACAA	AATCACACAA	CAGCAACCTTTTTTTGTTTTATAGCCTACTTCTCAAAATTGTT[A/TJTTTGTGTGATTAGTGACAACG
WI-17866	43 A	43 AT ATTGTT	А	GGGGAATCTACAATGCTCACATCACAGTAAACTACCA
EST33301				GAAAAAAAAGTCAAATGTGTTCCCTTTATGGGTGATGCCACCATGATTGCCTCACACAAGCATGATC
4c	80 GA	A	,	AATCGCCACGAGA[G/A]ACTGGATGCCAAAGAGTATGG
EST33301				GAAAAAAAAAGTCAAATGTGTTCCCTTTATGGGTGATGCCACCATGATTGCCTCACACAAGCAT[G/A]
4 b	63 G			ATCAATCGCCACGAGAGTGGCTAAAGAGTATGG
		AGCGTGGTTTT	АССВТВЕТТТ СТВТАТТТАТТ	
EST33460		CAATACTAAA	CAATACTAAA GTTAAATATTT	CTATCCAAAGATATTTATTGCAGCGTGGTTTTCAATACTAAACA[G/A]TGTAAACATGCAAATATT
-	44 6	44 GACA	GCATTGTT	TAACAATAAATACAGTGATTAAATAAGCCATGGCATATCCAGTTGATGTAATACTTTGCAA

		AAAGCATGAC CG	CTTATGTTA AGTAATTCC	CAAGTGAATATTGATACATGGCTGACAAGCATGACAATAAAATGAACAC[A/G]TACGGGAATTAC
WI-17904	50/	50 A G ACAC		TATTAACATAAGCGATAACATCAAAAACATCTGGTAAAATGCAGTTAAAACAACAACAACAAATGA
		AAATAC	75	CTACTAGCG GTTTTTTCTTTGAGTGACACAAGCTTGTTCATTTTTGAGAAAATGTGTGCCAAATACTCAAGTGTGAA
EST34149		AAGTGTGA	T.	T[A/G]GATTTTATTAGTTGTTCTCGCTAGTAGTTTTGGTATTCTATGAAAAAAAGCAGC1AG11CAGC
5	69	69 A G AT	ATAAAATC	TTACAAATCACACAAGT
				TGGGAAAACATAAGTTAACTCAAGAATATATTCCAGTCTTTATGTTACTAAAACATTGTAATAGTGT
EST34343				TTTTATCAATGATGCCGAGGTCACTGCT[C/AJTACAAAGATTAAAGAAACTTACCATCAAACACTTC
8	95	C A	•	CAGTGCATCAA
		GGACCATATG	CAGAAATTATG	GAAATTATG GGTACACAATTTTAATGGAAGGAACCACAGGTATGTTGAAAGAACATCAGTACAGCTGGAGACAGG
		ATATATACT	TGATAATAACT	TGATAATAACT GAGGGACCATATGATATAAACTCCTAAAAGCIC/TJGGAAGGAGTTATTATCACATAATTTCTGGGC
WI-17982	98		осттос	GCTACAGAAGTTTTTCATCA
				CTCAGTAACTCCGGTGTATAATCTGCCATTTATTGATTTATTATGATAAAACAACCTCTCATTGTGA
				AAAACAGCTAAGGGTGACATCTCCAGACCCAACCACTGTCCCTGTAATGT[A/C]CTGCTGAGAGTCC
WI-17993	118 A	A C	•	ACATTITGGAAATCCAAT
				CCCATCCAGAAACCCCAGTGTGATGGTGGAAGCAGCATGAAAACAACATCTCCCCAGGCCTCGCAGT
		GTAGAGGCGA	AGGCACATGGG	GTAGAGGOGA AGGCACATGGG AGAGGCGAAGGGAACAGĮA/GJGCTGCCCATGTGCCTGTCTCTAAAGACGCCACCCTCAGGTTGATGT
WI-17996	84	84 A G AGGGAACAG	CAGC	CACCTGTGGGAGACCGGGT
				ATTCTTTATAAAAACACCATGTCCCTAAAATGT[C/G]ATTCAACATATATGCACACCTTCGATGTAT
WI-17136	33	C.G		AGGACACTGATCAAAAAGACAGAGAAATGTGTCCCT
				GCCACTGAAAAAAGGTGCTCTTCC[A/CJGTTTCTAACTCCCTGGACTCCCTCATTGGAACTGAAGCTC
				ACAGATGTTTCAGCTGGACTAGTTTAGACTTTGCTGTATTTTAAAAGGCAGTGTTGATGCTCCAGGAT
WI-18041	24 A C	A C		TCAAATACTTAATCA
EST35164		CACAGCCCTGC	CTCTGGATT	TTGAACCAAGGCCCTAACAGATGACTCAGCAGGGCCTTCAAGCACAGCCCTGCCCCGAAGTCTTGA
8a	57	A G CCC	CTGAATCTCAA	GATTCAGAATCCAGAGGGTGCTCAGTCCTTGGTTTAGGTGCTTCTGTGACATTTCCTCTTG
				AGCGAATGAAAATGCTACATAGGCTCCCTGAGTTCTTTCATGTACGAATCTTGGTTACACATCTTAG(
-iwi				AGJACAGCAGAGCTGCCTGAGGGAGGGTTGTGTTTAATGTCGTATGCATGC
18052b	29	A G	-	ATGGCCCATCCATGCTTT
		CCTGAGTTCTT		AGCGAATGAAAATGCTACATAGGCTCCCTGAGTTCTTTCATGTACGAATC[T/C]TGGTTACACATCTT
-iw		TCATGTACGA		CTCAGGCAGCT AGAACAGCAGAGCTGCCTGAGGGAGGGTTGTGTTTAATGTCGTATGCATGC
18052a	20	T C ATC	стестет	ATGGCCCATCCATGCTTT
		GGGAGTGGG		CTGTTGTGCTGAGAACAGAAGGGGTCAAGGGAGTGGGGGGGTAAAA(G/AJTGGAAGCAGGGTGACG
WI-18054		46 G A GAGTAAAA	TTCCA	CATGCAGGAGTCCAGACAAAAGACGGGTGATTTTGCTCAGGTTGGTAGCAACAGAGGTAATG

		VI OIVOITO	COACTGGTATG	CCARTESTATE CARCITECTAAACCCTGTGGGTAGCTGCTAAGCTGTATTTCAGAIGAATGTCAC
		AGCTGTATTTC	ATTGTGACATT	AGCTGTATITC ATTGTGACATT AATCATACCACTGGGGAGAAAGAGTAAGCACAGTGCTTATTAGGTGCCAAACTGGGGTACCTGGGAG
WI-18064	54	G A AGA	O	GCAGAAA
EST35347		ATAAAATT CAGTTGGT		TTTAGCACCATTCTTAGTGGAGCAGGATTCTTGATCATGGGGTGGAATTTTGTGTATCTGGGCTTCAT GGGATGCATAAAATTTTCCAGTTGGTAAG[I/CJAGCAGGTGCCGAGGGTCTGGATCAGAAAAAAGG
2	97	CAA	25	CAGGCA
		AACCCACTAC AAAACTAATA		AAACCCACTACTTACTCAGAGTGTGTATIA/CJATATTAACACTGAAAGATATAATCTTAGAAAAA
WI-18070	28	28 A C GTGTAT		ACCTCCAGTTTCTTATTAGTTTTGATATTTTCTGTACTCAGAAGCATTTTAGGTTGCAAAGGATATAA
				 The state of t
WI-	80 CT	; -	;	TTTGACTTTTATIC/TITCTTATGTAAATTGAAGCCAAAATGCATGTTAATCCTTCCCTTTGGTGTAT
-iw				TGGCATAAAGTTTGCAAATATCAATATCAAACTAGTCTCTCTTTGTAATTAAAATCTACTATGCC[G/
18080b	65	65 GA		AJIGITTGACTTTTATCTCTTATGTAAATTGAAGCCAAAATGCATGTTAATCCTTCTCCTTIGGTGTAI
		GCAAATATCA	CAATTTACATA	TGGCATAAAAGTTTGCAAATATCAAATATCAAACTAGTCTCTCT/CITTGTAATTAAAATCTACTATGC
18080a	4		GTCAAACA	CGTGTTTGACTTTTATCTCTTATGTAAATTGAAGCCAAAATGCATGTTAATCCTTCTCCTTTGGTGTAT
		The state of the s		GTGGGCATCCTATAAAAGCAGCCATGTGTTGAAACAAATGATATGCACAGAAAGCATACTTCT[G/A]
				TGGCTTTGTTACACGGGTTTTCTTTCAAGAGGAAGATGACTCAGCCCTCCCAGCTTCTGCAGTCTAGC
WI-18086	63 GA	G A	•	TTAGGAGAGGTGTTTGAA
	i i			AACTACATAGTATGGTGCCTGGCTTAGAATCAATGGGTAAAAGCCTTTAGTGTACCTTTGGTATTCCC
-ix				TTC C/TJTTTGGTATGAAAGACAGACCTCTGCTGGAGGACTCATTACAATGTAAAGAAAG
18115b	71 C	 		TCAGT
		<u> </u>	AGAGGTCTGTC	TTAGTGTACCT AGAGGTCTGTC AACTACATAGTATGGTGCCTGGCTTAGAATCAATGGGTAAAAGCCTTTAGTGTACCTTTGGTATTCCC
×		TTGGTATTCCC	TTTCATACCAA	TTGGTATTCCC TTTCATACCAA TT[C/T]CTTTGGTATGAAAGACAGACCTCTGCTGGAGGACTCATTACAATGTAAAGAAAG
18115a	70	70 CiT TT	A	TCAGT
!				TTTTGAGAAGCACTCTGTAAGGCAAGGATGCATTCAAAAAATGGCTTTGAGGATTAATCTTCTTTA
WI-18136	78	78 A G	:	GGTAATTTGC[A/G]TAAGAACAATAAAAGCATTTTAAAAGTCCACTGCCGCCTTAGAAACT
				GGCAAAATATTTTACATCACACCTGGAATCTGCCCAAGTCTTTCCACTATGAAGGCAATCGTAGAG
. —		CCATCTTTCCG	ccarctifice GAGITCTGCTT	TGTGCAGGAGGAAAGGTGTTATCCAAGCAGCCATCTTTCCGGAAGCTC[A/GJTGGAGCACAAGCAGA
WI-18169	115	115 A G GAAGCTC	GTGCTCCA	ACTCGGTGGGTAGAGTGGA
W.				TGAAAGAAGTCGACACAGGGACACT[G/A]TCATAAGTGGAACAAAGGATGAAGCTAATCATGGAG
18190b	26	26 G A		GCAAGCTCCCTGGAGAGACAGGGACAAATCAAGAATGAGCTGGAGACATTAATCCTGGCGA

			The second secon	
WI-18190	62 G A	A	i	TGAAAGAAGTCGACACAGCGGACACTGTCATAAGTGGAACAAAGGATGAAGGTAATCATGGA[G/A] GCAAGCTCCCTGGAGAGAGAGAGAAATCAAGAATGAGCTGGAGACATTAATCCTGGCGA
		AAATATATAC CGTTTTACCAT		GACAGTGAAAACATTGAAAACACAAATACAACAAAAACATTAGGAACAAGAAATGTGTAAATCCAA
		AACACTCCCTT TT	GTTAAGCTT	TGTGTGAAAAATATATACAACACTCCCTTCAGATC[A/C]CAAAAGCTTAACAAATGGTAAAAGGTAAAAAA
WI-18181	100 A	100 A C CAGATC	TTG	TGTGTTCTTGAAC
				ATTCATACAAGCATTTCCTGAGTACAAACTAGGGGACAGGTATTTCACAAAAACAAATAGAGCAGA
		AGCAGAGTTC CCTCCCTCTCT	сстссстстст	GTTCCTGCCCTQG/AJGTGTGCGGGGGGGGGGGGGGGGGGTTCAGCATTGGTGGGGGGTATGT AATT
WI-18215	78 G	78 G A CTGCCCTC	2000	CCCTCAAGTTAATTCCTTC
		TGGTGTTGATT AAATAAAGGT	AAATAAAGGT	CATTTCCGAAAATCTGATAGTTAAAATATCCCGTCTGGTGTTGATTGTGATACACTTAAG[T/A]GAA
		GTGATACACTT	GTGATACACTT TTTCAGGGGTT	CCCCTGAAAACCTTTATTTTGAAATTGAAGTTTTTGCTCAGAAACTGGGCAGAACTTTTCACATTGCTCAGAAACTGGGCAGAACTTTTGAAATTGAAAGTTTTTGCTCAGAAACTGGGGCAGAACTTTTGAAAATTGAAAAGTTTTTGCTCAGAAAACTGGGGCAGAACTTTTGAAAATTGAAAAGTTTTTGCTCAGAAAACTGGGGCAGAACTTTTGAAAATTGAAAAAAAA
WI-18232	E0 T	60 T A AA	S	AC
		GGAAAACTTG CACAGAAGTG	CACAGAAGTG	
-		AGTTTGAGATC	AATAGACTAGT	AGTTTGAGATC AATAGACTAGT TTTAAAAATGCTTAGATTTTCCTCAGTATTTTATCAATAGTGTGAAGCTGGAAAACTTGAGTTTTATCAATAGTGTGTGAAGGTGGAAAACTTGAGTTTTGAGAAATGGTGGGAAAACTTGAGTGTGAGAAAACTTGAGAGAAAACTTGAGAAAAAAAA
WI-17892	76 T	76 T C ACA	GAGACA	ATCACATA[T/C]CTGTCTCACTAGTCTATTCACTTCTGTGGGCATTTCGGCAGAGIGGC
			GCTAACACTTC	GCTAACACTTC AATATCCCCAAATGTTAATCGTAACATACT[G/A]GAAAGCTGTTACAGTAGAAGTGTTAGCAAAAAT
		CCCCAAATGTT	TACTGTAACAG	CCCCAAATGTT TACTGTAACAG TGGATGCCACACACTTATCTCACCATTCCTTTCAAGCAAG
WI-18242	30 6	30 G A AATCGTAACA CTTTC	сттс	TGCAAAAGATCGAACAAG
				GCATCAGACATCACCACTCCTGAAAAAAACCTTCTACAAGAATTGAAAAGTGTTGCAGGACCTAATA
-M				CTGAAATAGGAAATATGGACTATCTTCAAACTGCACAAATGATGCATGAATC[C/T]ACATTTGAGAC
999	119 CT		.;	CCGCAACTCCGAGGTACCT
	! !			GCATCAGACATCACCACTCCTGAAAAAAACCTTCTACAAGAATTGAAAAGTGTTGCAGGACCTAATA
×.				CTGAAATAGGAAATATGGACTATCTTCAAACTGCACAAATGATGCATGAATCCACAT[T/C]TGAGAC
18266b	124 T C	 	•	CCGCAACTCCGAGGTACCT
		AAATAGGAAA		GCATCAGACATCACCACTCCTGAAAAAAACCTTCTACAAGAATTGAAAAGTGTTGCAGGACCTAATA
-iw		TATGGACTATC	Ę.	ICATGCATCA CTGAAATAGGAAATATGGACTATCTTCAAA[C/T]TGCACAAATGATGCATGAATCCACATTTGAGAC
18266a	97 (97 C T TTCAAA	TTTGTGCA	CCGCAACTCCGAGGTACCT
		GCTGTCAGCTA	GCTGTCAGCTA CGAGAAAAGG	CTGAGCCICHTGGATATGTGGTTTAGTGTCTATCATTAGTTTTGGAAAGCTGTCAGCTATTGTTATTTC
WI-18312	73/	73 A G AA	GAGCAGAAGA	AAATJA/GJTATCTTGTGCTCCCTTTTCTCCGGGATTCTCATTCTGCATGTTATA
				AAACATCTACAGCTGTCTTAGGCCATCCTGTAAGAAATCAGGGATAAGAGCTGAGGAACAAGAGGG
-iw				A/GJTATGTAGGCAGTGAGTCAGGACTATGCAAAACCATAAAATAAAGAACATAATTTTTGTTGAT
18330b	66/	66 A G	<u>:</u>	TCACA

	-			
<u>w</u>		TCCTGTAAGA	AGTCCTGACTC	AAACATCTACAGCTGTCTTAGGCCATCCTGTAAGAAATCAGGGATAAGAAGIGAJCTGAGGAACATTTTTGTTGATTC GGGATATGTAGGCAGTGAGTCAGGACTATGCAAAACCATAAAAATAAAAATAAAGAACATAATGTAGGCAGTGAGTCAGGACTATGCAAAACCATAAAAATAAAAGAACATAATGTAGCAGTGAGTG
18330a	49 G		ACTGCCTACA	TCACA
EST37564 5		AAATTCAAGC CATCTACAAA 85 T C AGA	CTATGGAGGCC TCAATGAGA	AAATTAGTTAGCCATAACAGGCTGGAATTGCTGGTTAGAATACTGCATGTTATTTAAGCTAAAATTC AAGCCATCTACAAAAGATT/CJTCTCATTGAGGCCTCCATAGGCTGCAAACACACATCAAAGGCATTAC TGTACTGGAGAGGACTGAG
WI-18327	104 GA		CGCATACAATG GCTCAGC	AAACAGCTTT CAAAGGGATTTTATTACCTACAACAAGTAAGGAGGACAGCTGGGGCAGTTTCCCAAAGCAGTACCTC CGTTAGGCTAG CGCATACAATG CCAAACAATGGTGAAAACAGCTTTCGTTAGGCTAGTT[G/A]GCTGAGCCATTGTATGCGGAGGCAGA TT GCTCAGC GT
EST37624				GTGGCAAGAGCAGCTAAAACACACTCATTTTGCATGAACTCCAAATACGAACAGTGCACGCTGATGG CCTGCAGTCCTCTGCCGTGCTTGGCTCTCTGGACG[G/A]TTCATTCTACATGGCTGCTTTGCGTCC
00	Σ Σ Σ			GTGGCAAGAGCAGCTAAAACACACTCTTTTGCATGAACTCCAAATACGAACAGTGCA[C/T]GCTGA
EST37624 6a	58 C			TGGCCTGCAGTCCTCTGCCGTGCTTTGGCTCTCTGGACGGTTCATTCTACATGGCTGCTTTGCGTCCTTCGCGTCCTTCACATGCCTGCTTTGCGTCCTTCGCGTCCTTCACATGCCTTGCGTTTGCGTTCGTT
		сссавссстта	AAGGACTCAA AGACTGAAGAT	CCCAGCCCTTA AGACTGAAGATCCCAGCCCTTAGCATCAAGGTGGCCATGAAGCCAAGCCCATGAAGCTTCCAGACTTTCAGATTTCAGATTTCAGATTTCAGATTTCAGATTTCAGATTTCAGATTTCAGATTTCAGATCTTTTCAGATCTTTCAGATCTTTTCAGATCTTTCAGATCTTTTCAGATCTTTTCAGATCTTTCAGATCTTTTTTCAGATCTTTTCAGATCTTTTTTTT
WI-18357	89	89 C G GCATCAA	GA GA	GIGGACCAGAGACA
WI- 18012g	117 A G		;	TTTTATCTGGGTCAGCTCCTTCTTAATGGCCTGAAGGTCATCTCCTTTCAACTTTCCAGACTTGGAAGAAGATCCCCGCTGTCGTGA[WG]GTGTTTCCTGATACAATCGACGACGTTTTGCCCCTTCGTGA[WG]GTGTTTCCTGATACAACCTGACGACGTTTCGAGGGG
				TTTTATCTGGGTCAGCTCCTTCTTAATGGCCTGAAGGTCATCTCCTTTCAACTTTCCAGACTTGGAAG ATCCCCGCTGTCCACTCTTAGAATTGAAGCCACTTTTGCCCCTTC[G/A]TGAAGTGTTTCCTGATACA
WI-180121 113	2	4 A		CGCICARCAIIICARGAG
ķ		GCCACTITIGG	GCCACTITIGC TCAGCGTGTAT	TITIATCTGGGTCAGCTCCTTCTTAATGGCCTGAAGGTCATCTCCTTTCAACTTTCCAGACTTGGAAG
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18012b	46 T	:	-	GCTGACGTTTCGAGGG
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5		42 T C GTTTTACA	ATC	CACTGAGGTCACATAGCTCAGAGGCAGAGTTAAGATTTGGACCCAGGCAGG
70706733				GGATCCTCACTCACCTGGGACAGCCTGAGAAGGGACATCCACCAAGAGCTACTGATCTGGAGTCCCA CETTCCCCAACTACTACAGGAACACGAGGGAACACGAGGGAACACGAGGGAACACGAGGAACACGAGGAACACGAGGAACACGAGGAACACGAGGAACACAACA
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EST38882	1.3		:	TTATTCAATGTCATCTCACACATTCTTTATTTTATTTGTTTTCACTTTCTCAAATATCGGATTGTTGC TCATGAGAATAATGGCTGAGGGAGCTGGCACGGCAGTCTTCTCA(G/C)GCTCCCTGGATAGCTAAAT TTA
EST38882		i i	TGTCATCTCAC CGATATTTGAG	TGTCATCTCAC CGATATTTGAG TTATTCAATGTCATCTCACACATTCTTTATTTTTA[T/C]TTGTTTTCACTTTCTCAAATATCGGATTGT ACATTCTTTAT AAAGTGAAAAA TGCTCATGAGAATAATGGCTGAGGAGCTGGCACGCAGTCTTCTCAGGCTCCCTGGATAATGCTAAAATAATG
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	-	GTTGAGGGAA		AACTGAATGGCAGTGAAAACACTACACATCAAAACTTAGGGAAATGTGGTTAGTGTGGTACGTTGAG
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				TAAACATTCCCATTGAATTCCCTTGGTGGGGGGGGGGGG
EST38955 5	30	30 G C GGTGGG	TGAATTCCCTT CACTGCAATCT GGTGGG CACCOCC	TATCACAAATATATCAAAAACTICAAATTGTCIATGCATTCACACTGACATGACA
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			GCACAATTAA	CAAACAGACCTTTGGTTTGAGCTCACCTGGTGACAGGAGACTCCTACCTGAAACAGGGATGCC[G/T]
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EST39446		AGGGACTTCA	TCCTGGAAAAC	TCCTGGAAAAC ACGTAAATCACTTTCATACCTGCCTACTGACATAGGGACTTCAGAGTAATA[C/T]GGTTTATGTCAG1
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EST39465		AATGCAGGAG	CAATCTCGGCC	AATGCAGGAG CAATCTCGGCC ATGGTGTCATTAGAGGGCCACAGGGGATGGGGGAGTAAAAAATAACATAAACGAACTGAACAGAAA
2	80 A	80 A G GGTGGC	CCTCT	TGCAGGAGGGTGGC A/GJAGAGGGGGCCGAGATTGGGTGTTCAGGGCAGAGAGAGGTGGAAGACCAG
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				CACAAAATGGGACTGCTGAAGAGTGGACAGTTGGACCTTACTTTGGTGACCCCATACATTTGTGGTCA
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				AGCTGATCAGCTGTCGTTACTGTGTTTTATGTGTGCCCAGGGAAGCCAAAAGATCAGACACCCTGTC
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		CTTTTGGCTCT	CTTTTGGCTCT CTCCCCTGACT	GGAAGCTGTATTGCTGATCTAACGTGCTGTTCCAGTTCCTTCTTTTGGCTCTAAGTGGGACTA[UT]TU
WI-18449		129 CT AAGTGGGACT	GTATCCAGA	TGGATACAGTCAGGGGAG
				ATCGCTTCATTGAAGCCTGCTTAATTTCTCTCAGTCAACTGGTGCCCCCAAGACATTATTTTATTCTT
				AAATGTCCAATATCTGCCTGATGTCTGTGTTTGTGCACATTGGGGCCACAG[T/CJAAATAGGCTAAA
WI-18457 120 T C	120	10	:	AGGCAGTCCCACCTGCT
		CCACAATGGC	TTTAGGCTTTG	GGTGCTATAGCTGCTTGTACACCACAATGGCAGAGGTGA[A/G]TAGAAACCATCTCAAAGCCTAAAA
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WI-16543	67 G	GT TGG	ACAGGGGACTT	ACAGGGGACTT TTTGTTAAGGCTGAAGTT
				ATCTGAGATGGAAGATTTCATCCCAAAACCATCTCCCCCTGACCCCCAGTCCATGGAAAAAIIGIC
		GCCAAAAAGG	TTACTTTTGTA	TTCCACAAAACCGGTCCCTGGTGCCAAAAGGTTGGGGAA[C/G]1GC1GG1CGG1ACAAAAG1AA11
WI-17687	107 C	107 CGTTGGGGAA	CCGACCAGCA	9
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17690h	79 A G		:	GGCTTCCCTAT[A/G]GATTCAGGACCCATAACTCTTGTTCTCACTCATCTGCTATGCTGC1G
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			UIGACI CATATTATTATTAAAAGACEGAGACTGCATTTAAATCAGGCTGTGTCACACCCCATOCTGGGTCTTT
EST91495	(CAGACCIGITALIAMAGACGCACACIGGGGGGGGGGGGGGGGGGGGGGGGGG
86	:		CHICAGO TOTO A A BACATTICIA CA TITIGA A TOTO A CATATICITA A GOOT GO A CATATICOTA TITICA A CATATICITA A CATATICA
			CIGGO GAGGA ATAGCA CATAGCA CONTINUE TO THE ANA GAGGA GO THE TAGGA GAGGA ATAGCA CONTINUE TO THE ANA GAGGA GAGA ATAGCA CONTINUE TO THE ANA GAGGA GAGGA ATAGCA CONTINUE TO THE ANA GAGGA GAGA ATAGCA CONTINUE TO THE ANA GAGA GAGA ATAGCA CONTINUE TO THE ANA GAGA GAGA ATAGCA CONTINUE TO THE ANA GAGA ATAGCA
1	(AATAAAGGCCCTCACC
ES191921 - 14 A G			ATABOCCA ABATTTGGA AGCA ACCCGTGA CCATCA ACCAGA TGA CTGGA TAAAA TIYO GGTGA CAACA GA TAAAAA TIYO GA TAAAAA TIYO GA TAAAAA TIYO GA TAAAAA TIYO GA TAAAAA TIYO GA TAAAAA TIYO GA TAAAAA TIYO GA TAAAAA TIYO GA TAAAAA TIYO GA TAAAAA TIYO GA TAAAAA TIYO GA TAAAAAA TIYO GA TAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAA
			CATETACACTATGGAGTACTATTCAGCCATGAAAAAGTCTAAGATCTTGTCATTAGCAACACATGG
EST92026			ATON A OTTORON A OTTOR
2 56 T		•	A I GGAACH I GGGAACACHG
			TTTCCATGAGGAATAAATTTGTGTTTATAAAACCIG[C/I]AGAIGAAIGAAIAIIIIIIIIIAACAGAAAA
EST92040			ATTCACAAATGCCAAAACAATGCAAATGCCCTTCAACACATGAATGGATTAACAAAACGGTGATAA
18 38 C	CT		ATGA
EST98276			GAGTCTTGCTATGTTTCCCAGGATGGTCTTGAGCTCCTGGTTTCAAACAATCCTCCTTCCT
د و	69 T C	**-	[T/C]AAAGTGCCAGGATTATAGGTGTGAGTCACA

EST98276				GAGICITIGCTATGTTTCCCAGGATGGTCTTGAGCTCCTGGTTTCAAACAATCCTCCTTCCT
p	61 AC	AC	-	CTCCTAAAGTGCCAGGATTATAGGTGTGAGTCACA
EST98276		СТСТТССТАТС	AACCAGGAGCT	GTCTTGCTATG AACCAGGAGCT GAGTCTTGCTATGTTTCCCAGG/A/CJTGGTCTTGAGCTCCTGGTTTCAAACAATCCTCCTAAGC
Ø	22 A C	A C TTTCCCAGG	CAAGACCA	CTCCTAAAGTGCCAGGATTATAGGTGTGACA
				GCCTCCAGCTGCATGACTCCTAAGCCATCATTTCGAAGATTTTGGCTAATTTG[ATJTAGTCTTACAA AGGCAGTCTAGTTCACCAGGCAAGAAGGGGGGTTTGTGTTGGGAAAGCGCTGCTATCTTTGTTTCAAAC
EST98800	53 A T	A T		TGTAAAGCAAGTTCCTC
				AGAGGATAGAATACATGGAAACGCAAATGAGTATTTCGGAGCATGAAGACCCTGGAGTTCAAAAAA
		CAGCATTAGTCT	ТТВВАТТВВТ	CTCTTGATATGACCTGTTATTACCATTAGCATTCTGGTTTTGACATCAGCATTAGTCACTTTTGAAATG
	- 0	ACTITGAAAT	TGTAGTACCAT	ACTITIGAAAT TGTAGTACCAT TAAC[G/A]AATGGTACTACAACCAATTCCAAGTTTTAATTTTTAATTTTAACACCATGGCACCTTTGCACAC
J02931	138	138 G A G I AA		AACATGCTTAG
				GGATCCAAAACACGGCTGGGTTTCAGCATCCACCAATGAACTGAAAGGTGAATAAAGGACGTTCATG
		GAGAAATCGA	TTTAGAGCACT	TAGAGCACT AGAAATCGACTACCAGCTGAT[G/A]AAATACCTGCAAAGTGCTCTAAAAATTAAATAAAAATTAAAAAAAA
		CTACCAGCTG	TTGCAGGTATT	TGCAGGTATT AAGGGTCCTAGTAAGTGCCACTTCCACTAAGAATACAGTTTGAATGTATAATCAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTA
L41680	88 GA	GAA	T	GATCCAACAGTGCACTCA
				CTTTTCTGTCACCAAATTTGTACCTCTAAGTACATATGTAGATATTGTTTTCTGTAAATAACCTATTT
		CAAATTTGTA	TTGGACTTTAT	TITITICTCTATTCTCT[C/G]CAATTTGTTTAAAGAATAAAGTCCAAAGTCTGATCTGGTCTAGT 1 AAC
		CCTCTAAGTAC	TCTTTAAACAA	CCTCTAAGTAC TCTTTAAACAA CTAGAAGTATTTTGTCTCTTAGAAATACTTGTGATIIIITATAAIACAAAAGGGICIIGACICIAAAAI
M15796a	84	CGATATGTAGA	ATTG	GCAGTIT
		GTTGAGTTCTT	ACAATGAACA	AGAGCCACCCTGTGGAAACACTACATCTGCAATATCTTAATCCTACTCAGTGAAGCTCTTCACAGTC
		TTGGACCAAA	ACTCTAAAGAC	TTGGACCAAA ACTCTAAAGACATTGGATTAATTATGTTGAGTTCTTTTGGACCAAAC(C/IJTTTTGTCTTTAGAGTTGTTGTTTGT
M20472	103	103 CT C	AAAA	TGATTGCATGTTTCCTTCCAACTGTGTTCTCCCTGGCATTCAGAGGAGGGGGGGG
				CCCTCTGACCTGCAGGCCAAGAGCAGAGGCAGCGAGTTGGGGAAAGCCTCTGCTGCCATGG[T/C]GT
		асстстастас	GCCTTCCGAGA	GOCTOTGCTGO GCOTTCOGAGA GTOCOTOTOGGAAGGOTGGGCATGGAOGTTOGGGGGCATGCTGGGGGCAAGTCOCTGACTOTOTO
M32315b	129	129 T C CATGG	GGGACAC	9
				TTCCCAGGAGCAGCAAAGGGGCCTGCTGAGCTCTGGTTAGGTTACAGCTGGAGGTGTGTATATATA
***			ACCTITGITAA	ACCTTTGTTAA CACACACACGTGTATATACACATATATGTGTATGTATATATA
		GGTTACAGCTC	AATTTAGGTGG	GGTTACAGCTG AATTTAGGTGG AATAACCACCTAAATTTTAACAAAGGTTCCTTCTAAGTGGTAGAACTTGGGGTGGTAITITIACCTTC
M33875a	131 CT	ст сместетет	ттат	CTICT
TIGR-		TTTTGTAGAG		A A CITTOR OF A COTOTOCITO COLOCITO COL
A003M18		ATGAGGTTTTC	GGCAGACGGAT	ATGAGGTTTTC GGCAGACGGAT TGTCTTTTTGTAGAGATGAGGTTTTCCT(A/G)TGTTGGCCAGGATGGTCTCGAAACTCCTGAACTCAA
ಹ		29 A G CT	CACTTGA	GTGATCCGTCTGCCTTGCCTCCCAAAAGTGCTGGGATTATAG

				ACAAGTTCAAAAGGAGAACTTCCTTTGTTTTAATGCAGCTGTGCTCAGAAGCCTGTGATTTCCTAGGA
TIGR- A003P30	117(117 C.G		AACCATOTGGGTTTAGCCCATTAGAAAAATGCAGTTAAAAGCAGTGCAGTGTAGCAGTGTGGAGTACTGGAGATACT
		CCAAACCTCCT	TGTAAACAGCT	GCTTGTCTTTTATGTTTAGGTTCGGGGGAAAGGAAGGGCTGACAACCGCAGACATCTGGACAGCAGCCAGC
TIGR- A004S34	156 C T A	CATTCCTATAA	AACTGTTTTTG TTAAA	CATICCTATAA AACTGITITIG AACCICCICATICCTATAAA(C/I)CITITAACAAAAACAGITAGCIGTITACAAAAAAAAAAAA
TIGR.				AACAACAGTGTAATCTTTAACAGGGGATGTTAAAGGTAAGAAGTCAGGAAGATAAACCAAAATGAT TGAGTATGATAAAGAATTTTGCATGGCGATT[A/C]AAATAGAAAAACCTATAAATGTAGAAAAAGCA
A004T44b	97 A C		:	GGTCTGGACTTAGCAAAGAAACAATATGACTTAGCAAAGAAAG
		GGAAGATAAA		AACAACAGTGTAATCTTTAACAGGGGATGTTAAAGGTAAGAAGTCAGGAAGATAAACCAAAATGAT
TIGR- A004T44a	69	CCAAAATGAT G A TGA	GCCATGCAAAA	GCCATGCAAAA TGA[G/A]TATGATAAAGAATTTTGCATGGCGATTAAAATAGAAAAACCTATAAATGTAAATGTAAATGTATATCA GGTCTGGACTTAGCAAAGAACAATATGACTTAGCAAAGAAACAATATGCAAAGAAAG
				CCTACAATCCTATAATATTGCAAGGGTTGGGAAGGATGCAGGAAAACAGGCATTCTCTTA[1/C]GCC
TIGR-	9	CAGGAAAACA TCCTTCC	CACA	TTTTGTGGAAGGATCAATTGGGTGCATGCACTTTAGGGGACAATTTGGGCAGTAGCTGTCAAATTTCC
2004	3		20000	TCTAGCTATAAGACCAGATTTTAATATTCTAGATATAGAATTATCCAGAATAATTCTATTGAATTGA
TGR.				CTGATTACAAAATGTTAACAGCTGGATAAACGGTAAAATATGCATTATCTTCACATGA[A/G]AAGGT
A004V26	125 A G	A G		TTCAGTTTATAAATGCTTAAATACTGTATCTATTTGCTTAAATACTGTATCTATTGG
TIGR-				CCAGGCTATAATGTTGTGGGTGCGATCTC[A/G]GCTCACTGCAACCTCCGCCTCCCAGGTTCAAGCAA
A004V28			CGGAGGTTGCA	TETTGTGGGTG CGGAGGTTGCA TTCTCCTGCCTCAGCCTCTTGAGTAGCCGGGACTACAGGCACCCGCCACCGCACCGCACCTAACTAA
Ø	29 A	GCGATCTC	GTGAGC	TATTITITAGTAGACATIGTATTITITAGTAGAGACAGG
				TAAGTTTTCCTTCTGTAGGA[T/C]GTCTCCATGTTACAGTCAACTATAAAACATGGCTCATGT
C		AAGTTTTCCTT	TITTATAGITG	AAGTTTTCCTT ITTTATAGTTG TCACTCTGGGCTTCGCTTCAGAGGAGTTTGGAAGTGGTGGTACCTTIGTTGTGTGGAAGTGGTACCTTGTGTGTGTGTGTGTGTG CTCTTCTGTAA
A004X20	25	25 T C GA	GAGAC	ATCATCATGTCCTT
		TTTGAAATCTT	TTTGAAATCTT TTCTTTATGGA	TTTTGAAATCTTAGAGTAGAACCCAC[T/C]ACTCTAGTAATACTTGTAATAAAATTAAAATTGTTTT
TIGH-		AGAGTAGAAC	AGTGTTTAAAA	AGAGTAGAAC AGTGTTTAAAA AAACACTTCCATAAAGAATTAGGGGTGCCCAGCTCCTTGATTTCCCCCTAGGGATAAAGATATCCAT
A004X30	56	26 T C CCAC	СТАТТТ	GTTAGGGATAAAGATATCCATGTAC
				CACGGTATATGCCTTATATATAGGTATATATACAGATCGTACACAATATATTTAACAGTTTGACATG
		-	CTTATAATTAG	CTTATAATTAG GGGTCCACAGTACCTTCATTTGGGTATGCAAAACT[T/GJTTGCTTTCATGAAATTTCTAATTATAAGG
TIGR-		TICATTTGGGT	AAATTTCATGA	TICATTTGGGT AAATTTCATGA ACTGTTGCTTTCTTCATATTCAATGGACATTATACAAAAATACAGTCTCTTTAGTGATTTAAGACGTC
A004Z04		102 TIG ATGCAAAACT AAGCAA	AAGCAA	TCTTTAGTGATTTAAGACTG

	-			OSTON ACTACO ACT
TIGR-		GAGAACAACT	GATGGTCAT	GATGGTCAT AGCATTITITICTTTTICOTTCCCGATGACATCTTTTGGGCTGGCGGGCCAGGCCTGGGTGTC
A004Z19	85 C	85 CT GCAGCATTTT CG	r cggaaga	TCCCATATCGCTGTCTTTAGTGAGACTGAGGATCTGGTATAAGGAAACAGATC
				GTCTTAGCAGAGGAGATAACTTTGAGGGACAGCCCCCAAGGCGCCAGGTAGCCTTCAGGGGCGGGC
TIGR-		TTGGGGGAGG	ТСАВСВСТВССВ	TTGGGGGAGGT CAGGGCTGCCG GGGTTGGGGGGGGGGG
A004Z42c	89 C	89 CT AGGAGACT	STEC.	CATCATCTGTGTCTTC
TIGH.				TATGGACTGTGTAGAAATATGATTTGGACAAGAAGGGTATGATCTAATAGTAATAGACTGAGAGGGG
A005D17				AAACCCAGCAAGGC[T/C]GTCTAGATTCTTCTTGGCCTCTGTGCAGGATTCCTTCCTT
ပ	81 T C	:- O	•	GGGGTGGGACCCTCTCTGGAATGGGTATCTTACGACAGTCAAACTCTTACGACAGTCAAACAC
TGR-			GAGAGGCCAA	GAGGCCAA TATGGACTGTGTAGAAATATGATTTGGACAAGAAGGGTATGATCTAATAGTAATAGACTGAGAGGGG
A005D17		GGGGAAACCC	ঠ	GAAGAATCTAG AAACCCAGCAAG(G/C)CTGTCTAGATTCTTCTTGGCCTCTCTGTGCAGGATTCCTTCTGGGCAC
ρ	79 G	G C AGCAAG	AC	GGGGTGGGACCCTCTCTGGAATGGGTATCTTACGACAGTCAAACTCTTACGACAGTCAAACAC
		TTAACATTATT TT	т ттетстаттат	GTCTATTAT CATCAGTAACATATACACAATTGGTCATCAACTGAACTTTGCCTCCAATATATTCTATACAATACTT
TIGR-		GAACTTAAAA	TTAAAGCCAAC	TTAAAGCCAAC AACATTATTGAACTTAAAACTGTTACACT[G/T]TTTTGTTGGCTTTAAATAATAGACAATGATTTTG
A005D44	97 G	GT CTGTTACAC	AAAA	TCTATTACTTAGTGATAGACAAAGTGATTACTTTGTTAGACAAAGTGATTACTTTGTTAC
Т.С.Р.				GGAGTTCAAATTTATAACCAGGCCTCT[G/A]CTCACAGGCTGTACTGGCTAGGCAAAGCTTTCCAGAC ACAAAGCCATGTGGGTAGGCTTTTGCCTGCTTGCCTTGC
A005E31b	27	G A		TTCATACCAATACCTTCTATTTCATACCAATAAG
H.				CTCAGTGTAAAAACTTTGTTTAGGGAAAAAAAAAAAAAA
A005E39	182 G C	0		CCACAGATATTTGCGGTATGTCATGAGGACTGGGGGATGTCTTTTG[G/C]GGATGTCTTTTT
				GCTGAGTTTTGTATCTTAGTAAGGTTACTGCACCTTACAGAG(A/G)CTCAATTTCCCCTGATTTAGGA
TIGR-		CTGCACCTTA	CCTAAATCAGG	CTGCACCTTAC CCTAAATCAGG AGGCGATGCTAATGGGTATTGCATAGGTGTAAAAAATAAAAAATGTTTTAAGAGAATCCCACAAG
A005E42a		42 A G AGAG	GGAAATTGAG	CTTGGTATAAGGCAGAAATAAATGGTATAAGGCAGAAAATAAAT
				ATGACAATGATGATAGTATTAGCCTACCGTTTGCTAAGCACCTACTGCGTATCAGGCACCTGACTGGG
1GR-		CACCIGACIC	CACCIGACICG COCIGGCIGIG	IGCI I ACATI ACATI ACATO ACAGO CAGO CAGO CAGO CAGO CAGO CAGO CA
A005E46	192	76 A G GTGCTTTAC	AGGTAATGT	ACAC
			.,_	
		GCAGGGGTGA		AGAGCAGGGGGTGACGTATGTAGAA(C/T)GCTTAGGGTGTCCTCCCCACAGAGCAGAIAC11GAACCG
		CGTATGTAGA		GGGGAGGACAC ACTCAATTCCTGTGTAAAGAGCACTTTGTCCTGCTTCACGGACCTCCCCAAAGTGTGCAGTTCTAA
U20979	24 (24 C T A	CCTAAGC	ATAGGATGCTGGATTAGTTCCTTTGATATTTGTAAAATTCCCCCAAGAGCCGCATA1GAATC1GCCC

		AGTGGAACCA ACGATCATAT	TGACAGAA	GTGGCAACTGTGGAAGGCACACTGAGGCAAGTTTTCACCTATCTGGAAAAAAAA
X5/830	001	ا ا ا	Α	
		CTTTTAAGAA	GGGCTTAAAAA	AACCTGAAGAAGTTACTGGGAGCTGCTATTTTATATGACTGCTTTTTAAGACCCTTTGAAGAAAAAAAA
		ATTITIGITIA	TATTAGAGATC	ATTITIGITIA TATTAGAGATC CAGTITITIGCTTATACACAATTCATTCTTTGCAGCTAATTAAGCCGAAGAAGCCTGGGAATCAAGTTT
X74070b	72 T	72 T G TGGATC	TAGATTT	GAA
				ACTGCCGAAGTGTAGCGGCCCCCAAACCTTGCTCTCATCACCAGIC/IJIAGAGCTTCTTCCCGAAGGG
				CCTTTAGGATAGGAGAAAGGGTTCATGCACACGTGTGAGAATGGAAGGGCCCCCTCCAGACCCT
				CTACAGCTGCTCTAGCCTTAGTTGCCACTAGGAAGTTTTCTGAGGCTGGCT
Z48804	44 C	-		TCCA
				ATGACCAAAGCCACCACATTTAGAACTTTGGCTGCCTTTGGAAGTCCAGAGCTGGATCTCTCAGCTCC
				CGCCCCCAGAGGGTCAGCACTTTGGACATGGCTCACAAGCAGTTTTTGATTGA
				GITGTGCGTGCAAGCATGAACCTTGTTTAAATCAAGAGGCTTACATAATTTTAACCAGTTCTGTCTTC
D28513b	133 A	-: 		AGCTGTACATA
			-	CCACTCCATCCTGATGCCCCCAAGTTATCCACAGCCTCCTTCCCGACCAAGACCCTATCCACCTGGACC
				TCCATTTTTCCCTGTAA(A/G)TTCTCCAACTGATCCTACCCTCCCTACTCCTGCACCCCAAATATGAA
D29833b	85 A			CAACTGCAGCAGGTGCCACCACCACAAAAGACACCACTACCCTTGTAACTACTGCTTGTGCTAC
		-		CCACTCCATCCTGATGCCCCA[A/G]GTTATCCACAGCCTCCTTCCCGACCAAGACCCTATCCACCTGG
				ACCTCCATTITICCCTGTAAATTCTCCAACTGATCCTACCCTCCCTACTCCTGCACCCCAAATATGAA
D29833a	21 A	<u></u>		CAACTGCAGCAGGACCACCACCACAAAAGACACCACTACCCTTGTAACTACTGCTTGTGCTAC
				CTCCCTGCCTCCTTCCTGCCTGTGATGCTCCGTCTCAAACAGCCGAAACCTGTCTTGCAATGGGGG
				GAGGGGGCGTTTC(G/A)CTTTCCTTCTTGGCTTCCTCTTATTCTTCCACAAACCATTCTCAATAAA
				GCCAAAAATCTTTCTCTTTCTCCCCTCAGGCCACCTCCTGTCCTCACTCCTGTCCTGTGCTGGCTG
D31762	82 G	GA		CTGGA
				ATTATCGCGAGTGGTTGACCTTACACTTCCTTAAATAGCAGTGAGTAATGCATTTGAGCTG[T/C]
				CCCAGGCTCTGTCTCCTCAGCTCATTTCCTACTCTTTTCTCTATATAACTCATTCTATTAAATACATT
				GCACCAAAGAGATATGGAGACATAAACCTGTAATGAATGA
D37931	64 T	64 T C		

				CAGGCAGGACTICAGTGTCAGTATCCCTGCCTTCAGTCTTTAGAAATCACATCTGTGTTCAATCC ATTGTTTAGAGGGAGTGTATTTTCCTGTTCCAGCTGAGAGGACTTTTGTTCACAATTGGATCAC
D63807 10	101 CT			AATGCAGAGGAGTCTGTTCCTCCCCGTCGGCTTCTCGGTGCTGGGAGGGTGACCTGTCCCAGATGAC
				TGGGAACATGCGTGTGACCTC[T/C]ACAGCTACCTCTTCTATGGACTGGTTATTGCCAAACAGCCACA
				CTGTGGGGACTCTTCTTAACTTAAATTTTAATTTATTTAT
D90145 2	21 T C		ļ	TOTGGTG
35				ATTATCACTCTCAAAAATTTTGGTGTGTGTGTTTAAGTACTTTCTTATTTAT
	59 T C			CCAGACATGTTATCAAGCCCCTTATATACCATCTAAT
T16668				GCATTITAAAATTCACATTGAATCATTATTTACTATTTATGATGTTTACATAACAATTCAGTATCATT
2	71 CT		:	ATG C/TJTGTAGATTTCAGATGTAGGTCGTCAATACTGAGCACTTATCT
EST16904				ACAGACTATCGCCAACTTATAATGCTTAAACTTTATGATCAATAGTAATAAATTACA[C/T]GAGATA
	57 CT	•	i	TICACACTITATIATAAAATAGGGTTTGTGTAAGATGATTTTTCCCAACTGTAGGTTAACAT
EST21863	<u> </u>			TTTTTAAGTACCAGAGGCACTGCTGGAACAGGATGAAAACTGATACACC[A/G]GTTACTACTC
6	49 A G		:	TTCACTCTTCAAACTGATTCCCCTAAAGACTTCTACTTAGCAAA
ST21885				GGCTGTAAGTAGAATCAAAGGTTAAGAACATTTTATGCACTTATTCCACAAACATTTACTGAGCATA
9	80 GA			CTAGGTGCTGGGA[G/A]TGTGACAGTGAGCAAAAAACACAA
EST22623				ATTTTAGTGCAAATGACAAAGCCCAA[A/G]AGAACAGAGGATCAAATAAGATTGAAATGTATTACC
8a	26 A G			TTCTCATAAGTATACGAAGTTTAACACAGTATGGGAGT
EST22644				AAAATGATTGAATTCAGCAAGTACATTTATGATCTATCTA
	98 A G		:	AAATTITTAAAATGATTATCCATTATTTACAG(A/G)AAATGTGGAAAAGATGGCTTTTAAAACCC
ST23587				CCTCATTTATTTAAAAAGACGGACATAAAAA(T/A)TATACAACAAAAAACCCAAGTCACATTTCAG
-	31 T A			GAGGTAAAAAACTAAAAAGTCTGATATGAAAATATGGTGG
				AAAGATCTGGCATTATTCACATCATTCTAAATATTTTGTAATTACTTTTTCCATGAGTATTTTTTCA
EST24246				TGTCCAAGCATTTTAACTATCATTTTAGCGTAAATACC[T/C]GAATAACCCATAGTTACAGAATTGG
7	106 T C		:	GTCTGTGTAACCTCAATT
EST24308				TAGTITAATTITCTGAACCTTTGGCTTATAAATTTTTCTCAACTT[A/G]CATTTAAAAATGTATCAAT
3	45 A G			GCACCTTCTTCAGTAGCACATGAAAATATAAACCTCGTTC
EST24435				CTTGAACTTCTGGTCTCAAGTGGTACGTCCGTCTCAACCTCCCAAAATGATGCGATTACAGGCATAAG
9	73 G A			CAGCCIG/AJTGCCTGACCCACATTTTCTTTATCCGATCTGTTGATGGACATTCAGGTTGTTTC
ST25089	-			TATTGTTGCATTATCAAAATGGTTA[T/C]AGTTTTCAATTAAAACTGTAATTGATTTCTATGTATAAA
9	25!T C		:	ACAGCIIIGAAGIIGIAAAIGIAGIIICCAAICGIIAGIIA

EST25476			AATGATCTTTATTTTTCAGACCTGCTCCTAAAA(GA)CTTTCTCCTCCTCGTAAAAAACACACA
6	33 GA	•	AGAGGTOCTCTTGCTGCCTTTCCATGGACTGTGGCGGCTGTGGACTTGGACGTCGTGTGGAGGTGGTGGTGGTGGTGGGGGGGG
EST26183	!		AGATAATGCATTAGAGCCTGCCCTCATTGTATCTTGATTAACTTTGTAAAGATTGATCTCTAAATAAG
	70 T A		AT[T/A]ACATTCTGGGGTACTGGGGAGTTAGAACAAC
E\$T27231			AGAAAATAAGGTGCTACCAGAACTCATG[T/C]GATAGCGCTTTCTTTTAGGCACATATTATAGCATT
<u>1</u>	28 T C	•	CAGATGAAAGTTCTGTAATCACACACACACTGTGCCTCTAACAACAACAAGGGGGGGG
EST27816			CAACTCAAGGTACAAGACAATTGCAT[T/C]TAACATTGTTATAAAATAAAAGGAACATCAGATCAAT
	26 T C		CATTAAGGGCTCCAGAGTGAACAGCATCTTCATAACTTCCATGTT
			GTTTAATTGGCGTATGGTTCCACAGGCTGTACAGAAAGCATGATGGCTTCTGGGGAGGTCTCAGGAA
EST28588		_	ACTTACAATCAJA/TJGGTAGAAGGCAAAAGAGGAAGCAGGCATCTCTTCCATGACCACAGGAGG
	78 A T	:	AACAGACAGAGGGGGGAT
			TACTCACACAGAGATATCTCA[A/C]GTAGAATTAGCTATACTGCATACTAACTTCATTGTAGT
EST30226			AGGGAATATAAACTACTGAACAAGACAGACTTGTCTAACTTAAACAAGACAGAC
	25 A C		9
			AGCTATGGTAGAGCAAATTCCAGTGGTGGTAAATCAAGAACTCTAAAGTTCAGTAGAGQ[C/G]AGGT
EST30935			GTTTTGAATGTCAAGGAAATCACTGAGGTAGATTTGGGATTACAATAAGACAGCTGCCCTGTGAGGI
	59 C G		CATAAGAGCTTTTGTGAGG
			CCGAATATAAGGAAAAATGGTGGC[G/A]TGCCTCTAAAACCTGTTGAATAGAATAATGGCCAAAT
EST32515			ATTACAGITTCTCACTTTCCTATGAATACTGGCACTGTTTATTTCATGTTTATATGTGAGTTTCTATGC
7	25 G A		ATAAAAATCCCAGTAAGA
			TGCTTTGTTTCCCTCCAAATCCTAAAA[T/C]GTGTGTCTTCAAAGAAATTCGTGGAAAGGACTTTGAA
EST33274			TACGAGITITGTACCATATICAAGTATICTIGAATACAGGITICAGATAACTATGGAGATGATACCATI
4	27 T C	:	GGACTAGGTA
EST33352			TACACATTATTCAAGAGCCACCTGACATGCATCTCCTCCGCAGAATACATTCGTCCTCTTAGAGA
7.b	75 C G	1	AGTTTAA[C/G]GCACATAGTATTATTTACTAAGAGAATATCTCTTGGTGTCATATCTAGGGG
-			ATTITICCCACAGCAGAAGTATATITATIGCTGAAATCAGGTAGCAGGGAATGAATAGCTCTTGG
EST33424			GAACCAGTACAGAATGTTCACAAAGATTTACAAATCTCAGTCATTACACACTGAGCAAC(A/C)AAA
	126 A C	:	САААGGTGTTGAATCCTCTT
			CCTTTGGGGGGAGTTTTAAGCCAGAATGTGACAAAGTCACTTACAGGAAGACTGGAATGTAGCCATAG
EST33488			TTGAACTCTAACATCGTCTATAG[A/G]ACCATTTCCCGTCTCCAGTTAGGTTCTAGGCATACTAAGCT
4	90 A G		2009
EST33508			AAAAACATGCTATTTGAACAAACTTTTTTATAAAGAATAAGTTGA[C/T]TGAAAAGCAGTTTTAAAT
1 p	45 CT	!	AACATCAACTCACAAATGACTTTTAGAAGCCAAATAA

EST33508			AAAAACATGCTATTTGAACAAACTTTTTTATAAGA[A/G]TAAGTTGACTGAAAAGCAGTT11AAA1
1a	36 A G	-	AACATCAACTCACAAATGACTTTTAGAAGCCAAATAA
EST33863			ACAACATAGGACTGGTTATTCTTGGTTTTGAAAAATTATGTTGCCACTTCCTATTGTTTAAAAATGA
4	77 CT		TCATTTAAC[C/TJTCTTTGAACTACAGCCTGAATCCCCC
			GAAGTATCCTTCCCAGTGGCAGGAACTGAAGACTCCAGATCAACCAGGTGGACCTTTTCGTTGATGA
EST34739			GCTGATAGCTTCTAGGCTGTGGGGAACCTC[T/A]GGTGCCTTACAACTCCAACTACTGCAGAATTTCT
က	97 T A	•••	TGTTGTGCCTCATAAACA
			ACCTGACTGCTTTAAAAGCTCTTTGTAAGCTGACCGTAGCACAGATCACGTGGCATCCACTATCAATA
EST34792			CTCATAAGTCTAATITATCCTCAGGATGTTCCCTGA[A/G]GTATTCAGGAATTCTTAGTCCTATTACA
6 b	104 A G		AAGATTTTGTTGCTGTG
EST34835			GGAAAATGTTCCCTTTGCAAACAAGGTACGTTTATTCTGCAACTTAGGAGATAAAATGAGATTTCTG
9p	93 T G	•	TGGGGAGTCTATGTTGTGCTTTCTGGTT/GJGGCCTTAAAAGAAACAGACAAATTTGTGCTAAAGAT
EST34835			GGAAAATGTTCCCTTTGCAAACAAGGTACGTTTATTCTGCAACTTAGGAGATAAAATGAGATTTCTG
9a	82 G A	•	TGGGGAGTCTATGTTJG/AJTGCTTTCTGGTGGCCTTAAAAGAAACAGACAAATTTGTGCTAAAGAT
EST35230		,	CACAAAGGTCCACTTTACTTACATGAAGGAACATAAAGGCATGAGAAACAGTCATCTCAATAAATG
0	93 GT	•••	CAAGACATGAGCATAAAAGAGGTTCTCJG/TJGCCTTTCCAGCGTTGTTATTACAGAGAAACCT
EST35337			TCTTTTCAAATTTTTTGATGTAGGCATTTAATG[C/T]TATAAATTTCCTGCTTAGGAATGTATCTGCT
6	33 C T		ATATCTCAGAAGTTTGGGCATGTTGTGTTTCCATTTTTACTTAGTTCAGAACTTTTCAATTTTCATCT
			CTGCCCCAAATTAACTTTTAGGCAAATGGAAA(C/T)AGACTTACTGTATGGGGGACATTTTTAAAAAG
EST35708			ACAGCTTAGTAATATGTTCATATGCAGCGTG11GCTTCCC1C1C1GAGG11GGCACC111CC1G11G1G
6	32 CT		ATGTGCAAAGTGTGGCT
! !			ATCCAGTGCAGAGTTGTAGCTGGAGACATATTTCAACCCCACAAAGGCTCCA[C/G]ATGTTAAAACGT
ES 33/4/	<u></u>	!	TICCCAACATCAACCTAATACAGTGACAGCAACACCTCCTGCCTG
,)		TGGTCCATTATATATATCAGGGAACAAACGGTGCTGACATGGCAGAGACATTTATTT
FST35751			AGTTCCTCCCATGAAACCAAGAIC/AICTTGTCCTCATGATAAAGTGGAGACAATAAGAAAGCCAGGT
6	89 C A		ATATAATTAAGGCCTGTGA
			CACCTGTTCATTGGTTCACTGGGCTGCTATCTGTGGGCTGATGCTCTACCAAGTGCTCAGCCTACAGC
EST36301			AGTCAGGAGGCAGCCATGGCCCCTG[C/T]GCTGATGGAGCTTGTAATTTAGCCCCAAACTGATCTTCA
4	93 C T	•	GAAAGAGGTACAACAAA
			GCCATCAGCCCACAAAGACATGACTACCAACGCIGATJGGCCCCTTGCACCCATACTGGCCTCAGCAC
EST36519			CTAAGACTGGACAACTTTGTACCTAATGACCGCCCCACCTGGCATATACTGGCTGG
0a	33 G T	<u>:</u>	CACAGGGGTCTTAGTCGT

EST36620				GACTITATTAGATAAGGGGTTTCGGCTACCCTCAAAGCTCTCAGGACTGG[G/A]GCTAGGGTTTAAGG
9	50 G	Α		AAGGCTTATTTAAATATGGGAAATAAAATACAAAGGGCCACACCCGATGCAAAGACTTT
				CCTGTGATGTGCATGGGTGCCTGAGCAGTCGTACTTACTATGCGTCAGACAGCTCACGTATGTCAGGA
EST36690				AAGGAAGTCTGGGGATTCCTAĮC/GJAGGGGACATATCACACATATTCTAAGTCACTGTGTGTGACTCGG
0a	3 C	 	i	CTTGAGCAAGTCATTTCA
EST36729				GAGACAGAAGCCATCAGTTAAATGAGGTTAGGCCTCTCCTCCTAATATACTGATTGACAATG(C/T)A
б	62 C	1	1	TATTAGCCAGGTAATGCACTTTAGCTACCCTGGACAATGCTATCAAGTGTGCTGGGAAGGGAG
				ACTGTCTGGCCGATGATTGGAGCTTGAAAAAACTACCATGCCAGATCTCCACCCCAGACCAATTAG
EST36823				GTCAGTATCTCTGGGGGTGCTATTCAAGCAACAATT[A/T]TCTTTTATGTTCCTAAGCTCATCATGAG
9	103 A			TTAA
				ATGATCGCTTATGTAATTTGAGGCGACATGGGTAATGGGAGATACCCCACAGGACCTGTAAATATT
EST36987				TAAATAATATTTAACAGCTGATCAGAGGCTAAATTACAACTGACATTTTGATGCAGTTT[C/G]GTTA
4	126 C	G		GGGAATTAAGACAATGCAG
		<u> </u>		GGTCTCACTCTTGCCCAGGACGGTTTGAAACTCCTGAGCTCAAGTGACOCTCCCACCTTGGCTTCC
EST37054				GAAAGTGCTAGGATTACAGG[T/C]GTGAGCCACCACCTGGTCCTTGGTTTAAAGTAACCACTGAA
3	88 T	:		9
T37269				AATAGTCTATGGCTACGGGCCCGTGGGATGTTAAAAATTGGGATTTTAAATTAAGATTGTGAACATG
36	105 T	G	•••	CAAACCCAGCAAATTTCTCAGCTTATATTTTGAAAGTC[T/G]CAGGAGAAAAAATGGGGGTCC
		·		AAAAGACCTTTCTCAAGCAGTAAACTTTGAGCAGAGACTCAGATGAAGTAAGGGATGAACCAGGAA
EST37284	(GCTCTCTGGATAATGTCACTCTAGGAA(G/TJAGTAAACAGGTGTTAAAACCCTGAGATAGCAACCCT
2	93	 	:	CTTGGCTTGCTTGAGGAATA
1,010			·	AGATGGGGTCTTGCTAGCTTGCTCGGGCTGAACTAAAGGTATCCTCCTGCCTCAGCCTCCCAGGTAGT
2a	90 A	; 	1	CCCCAGAGGACAGGACAA
				CCTGCCATGATAATGTTAAAACATATCAAGATCCTCCTCAAACTT[C/T]AAGGGTGAAAAGCATACC
EST37374				ATTCCATTITAGTTGAAATATTCCTTCACATAGCCAACACATTTTTTCAAGGCACTCTAGCTACTACA
_	45 C	<u>.</u>		GGA
				GTGACATCATGTCTTCAATGCCCTTTCAATTAATAGTAGTTGAGCGCTGGGGGGCTGAAGTCAGACT
EST37376				CTCTGGGTTCAAATCACAGTGCTGTGTCCTGCA[G/C]GCTGTCCTCAGGCAAGTTGCTGACTTCTCTG
8p	101 G		•••	TGTCCAGG
				GTGACATCATGTCTTTCAATGCCCTTTCAATTAATAGTAG[T/C]TGAGCGCTGGGGGGCTGAAGTCAG
EST37376			-	ACTICTIGIGISTICAAATCACAGTGCTGTGTCCTGCAGGCTGTCCTCAGGCAAGTTGCTGACTTCTCTGT
ва	41 T	 		GTCCAGG

EST37378			ACACACAAAAAAAATGGTGGCAGAAAATCTGGAAAGATTCTAATAACCTCAATTCGTGAAAAC(T/G
တ	63 T G	•••	JAACATGCCTCAAAAAAGAGGGGGAAAAAACTTTAACAGAAACACTGTGCTGACATGATTAGCTT
EST37452			AAGACATAAATCTGCAATGAAATCAGTTATGAAATATTAAAACCTCT[G/A]CTTCTCAGGAGTGACAC
4	46 GA	:	TAATCATGGTCTGGAAGCTAGCCTATCGCATTTTAAAACACCCTTAAATCAATGACGTAGAA
EST37613			CTAGGCATGGGGCTTTTACAGTCATTTACCQA/GIGTCATGAATTCATTAAAAACCACAGCGAT
	34 A G	:	ATAGCAATGAGCAAAACAGACCCTCCCCCAAAATCACCCTGCGTTCATGGATCTTCCATTCTAA
EST38025			TTATTGAGTAGCTACACTGTGGCCAGAACTAAGCTTTACATGTTTTATATCACTTA[T/G]TTATCTCA
4	56 T G	:	ACAATCTTGAAAGGGTGGTATTATTTCCCCGTCTTATAGGTGAAGACTCTGAGGTTCAGAA
EST38068			TCTACCAGGTCACCAAAGTATCTGTATATGCTTTAAGTGGCATTTTCATGTCACTTA(C/T)CGCATGG
9	57 CT	1	AAGAACGCTCTCCTTTTAATTCCCTAACTCTTCTTCTGGGAAGACAGAACGTGCACAA
			TAAATCAAGGCCTCTTTCATTACCAAAACAAAACAAAAGGGGAACAAAATACGATGGGAGAGG
EST38420	-		GAAGAGATGATGCCGAAGTGTCATCCTGACTGACTT/CJGTCCCTGCAGTGCCCATGGGTCCCGTGCCT
	100 T C	•	TATTCATTCTCCTCTCA
EST38950			CTGGAAATACTTGGGACTTACATTTGACACAGGCTAAAAGTATGGGATGAGAGGAACAAAAGCTT
2	25 T C	i	ACAAACAAAGAGCAGCCA
EST39053			TITITIGITACTCTGTAGCCAGTCATTAATCTGAAGGTTTAATATATCATTTTATTGGGATGAGATCA
ဖ	90 T C	•	TAGTCTTTACACAAATGCTATGJT/CJAAACAAGTTACTGAATATTTTCACCTCGTGGAGTTG
			TCCTTCTTGCTCTAGCACTCAGACCACCAAAGAAAGCCTGGAAGAACCAGCCATGGAAGGAA
EST39331			TGC[G/C]GTGTTTTAGGGAGAGCTGGCACCTGGCCTCTAATCTTCCCTCTGCCATTGACCAGATGGGT
-	70 GC	;	GCCTTTGGATACATCACT
EST40544			GTCACCATTGACCTTACATAGTGCCTCTAGT[C/A]ACCTATGAGGCACTAGAACTCTATTGTACTTCT
7	31 C A	:	CACTITATCACATTAGCTATCGAAGTTTGAAATTT
			TTCTAATAGCATGCCCTGTGACAGGGAAACTAAGCTC[T/C]TCAAAATAACTGAAACTAAATCTGTA
EST40548			AGATAAAATGCTGGAATTTGAGAAGGCACATGCCTTTTGTAGTTTTCTCCAGAAGGCTCAAGGTGTTC
4	37 T C		AATAATCTGTGGGACTCA
			TGTTTCTCTAGAGAACCCTGTGTGATACACTACGCATGCACA[A/G]ATAAAGTCACATCAAGACTAA
EST40549			TAATCTAAATGTTAGTTTGTTACCACCATTTCTCACTTTGAACCTAGCTCCCTGCAAAGCACGTTCTA
-	42 A G		CCCTGCACTTTTGGGGAG
EST40579			TGTGAATTACACATCAGTAAGGCAGTTTACAGAATTTTCATTCTTTACCTAAAGTCTGTGCTATCTG
	81 A C	;	AGCTGGTGGAAAAAAOJGGACTTGGAGACAGCGATTTAAATACGGAACAAGGTCTTCCAGGAAG
EST40584			TTGTATGGTTGTAGGAATTTGGGAAGAAATTATCTGTGAAGGAAATTTGCCACTGTAATGCACACCC
3	68 A G	-	AIA/GITCTGTACTCCCACAATATCCTATGTTTTAAGCT

				GATCAAACTGTATTGCCCAGGCCAGCTCCTGAAGAACTGTGAACTATGAACG/AJTCTCAGCCTAGA
EST51340	51	G A	:	AGGATAATGTGACCTTCAATTTGCACCATCCATTGTCTCTTTCAAACTAAGAGCCTCTCTAAGGCTA GATAGGCCAAGGATTATT
0.440	Ç			CATGGGAGTAATAAGAGCAGTGGCAGCAGCATCTCTGAACATTTCTCTGGATTTGCAACCCCATCAT CCTCAGGCCTCTCTACAAGCAGCAGGAAACATAGAACTCAGAGCCAGATCCTTTATCCAACTCTGA T/CJTTTCCTTGGTCTCCAGTGGAAGGGAAAAGCCCATGATCTTCAAGCAGGAAGCCCCAGTGAGT
X01508		 	!	CTGAACTCCAGCTGCCCTACAAACTCCATCTCAGCTTTTCTTCTCACTTGTGAAAACTAC[T/C]CCAGTGAACTGCGAATTGCTGACGCTTCATGCTTATCCATTACCTCAAAAGCAGTCATTCCTTTAGTAAAGTTTCCAAAAAAAA
L18877	69	U U		TGAGTCTGAGCACGAGTTGCAGCCAGGGCCAGTGGGGGGGG
L31848	36		j	GCTATTITACATATCCCAAGCCCTTTAGGGCTACAGIT/CJCTCTTGTCCTGGACCCTGTAGGGTGCCA TTTGGAGTTCACAGCCTAGAAGAAGAAAGGCTTTGGGCCTGGTGTGGTGGCATAGGCCTGTAATCGT AGCGCTTTGAGAGGCTGAGGCAGGAAGATAGCTTGAGCTCAGGAAGTTCGAGACAAACCTGGGCAAT GT
L38517		 	i	GGGTCCAGAAGCCTCTCAGCCAGGAGGGGGGCTGGCCCTGGAAGGGACCTGAGCTGGGGACACTGGC TCCTGCCATCTCCTCTGCCATGAAGATACACCATTGAGACTTGACTGGGCAACACCAGCGTCCCCAC CC[G/C]CGTCGTGGTGTAGAGCTGCAAGCTGAGCTGGCGAGGGGGATGGTTGTTGACCCCTCT CTCCTAGAGACCTTGAG
L39059	123		:	ACTTGAGAAGCAGAGCTCGCCACCTTCTGGAGGCCACTGTGATGAGGCCAAGCAATTTGGAGGCCAAGCAATTTGGAGCCAAGTTGAAGGAGCCAAGGAGGCCAAGGAGGCCAAGGAGGCCAAGTAGTAGTAGTTGTATTTGTATTTTGTATTTTGGAAGATGCCTGAAGATCATCCCGCAAGGCAGGC
L41268d	173.GA	G A	i	CAAAGTTGTCTCCTGCCCATGAGCACCAGTCAGGCCTTGAGGGGATCTTCTAGGGAGACAACGC CCTGTCTCAAAACTGGGTTGCCAGCTCCAATGTACCAGCAGCTGGAATCTGAAGGCGTGAGTCTGCAT CTTAGGGCATCGCTCTTCCTCACACCACAAATCTGAAC(G/A)TGCCTCTCCCTTGCTTACAAATGTCT AAGGT

			AAGTGAACAGAAAGCAAAGATGGTTTCCTATAAAAGCACATAGTTATGTTTACTGGTATCGT AAGAAGCTGGAAGAAGAGCTCAAGTTTTTGGTTTACTTTCAGAA[T/C]GAAGAACTTATTCAGAAAG CAGAAATAATCAATGAGCGATTTTTAGCCCAATGCTCCAAAAACTCATCCTGTACCTTGGAGATCCA
L48728b 1	111 T C	•	GTC
M18079	52 G A		GCGCACAGTCCAAAATACAAATTGGACAGAAGATCTATATTGTACCAGAACT[G/A]TTTATTTCACC CCATCAAGTATAAGGTTACTGATTGATTGGTCCTTTTATAAACATTGGTATATTTCCATTCATGCCAA AGCAAAAGAAGTAAAAGCTAA
			TAGGGATCTGTGCCAGGCCATTCGCACCAGCCACCCACCC
M19169	113 T C	-	3
M21539	114 T G		TCACCTCGTTCCACAGCTCCACCTGCATCTTCTCATCAAAGCCATCCAGGGATACACAGGGGAGCTTCT TTCCCCTTAGCCTGTGATCTGCCCATGATGATCCCGACAGCAAAA[1/G]GTTTCCTTTCTGAGGCTG CCATGCTGCCACTGTCCAGGTGGAGACTGAGCAAAGGAAGTCCTCAGCTGTACCGGCCTTTCAGAGCT TCTCTTTTGGGTGC
M26041c	173 A G	:	CCTAGCATTATTTTCTGGCCCCATTTATCATATCCCTTTTCTCCTCCAAATGTTTCTCCTCTCACCTCT TCTGTGGGACTTAAATTGCTATATCTGCTCAGAGCTCACAAATGCCTTTGAATTATTTCCCTGACTTC CTGATTTTTTTTTT
M26041b	157 A G	:	CCTAGCATTATTITCTGGCCCCATTTATCATATCCCTTTTCTCCTCCAAATGTTTCTCCTCTCACCTCT TCTGTGGGACTTAAATTGCTATATCTGCTCAGAGCTCACAAATGCCTTTGAATTATTTCCCTGACTTC CTGATTTTTTTTTT
M26041a	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	CCTAGCATTATTITCTGGCCCCATTTATCATATCCCTTTTCTCCT[C/G]CAAATGTTTCTCCTCTCACC TCTTCTGTGGGACTTAAATTGCTATATCTGCTCAGAGCTCACAAATGCCTTTGAATTATTTCCCTGAC TTCCTGATTTTTTTTTT
M63967	57 6		TAAGGCAGCTGTCAGGGAGGCCCAGTCACAGTCCAGCAATTCCACAACCACCTTGACGC/CJAATGCT TGCCAAGCTGTTTTAAAGCCAAGAACACCCTTTCTTTGTTCCAAATTAACTCTTAGAAGAAACCCCA CAAATAAAGCAATTCAATC
			ACTTACTTACCCTCACCTGTCAGGCTGACGGGGQGAJGAACCACTGCACCACCGAGAGAGGCTGGGGATGGCCTTACTTGTCTTGTCAAGGTTCCAACTGGAAAACGTCTTGCTTG
M81695	34 GA	•	

				CTCCTCCTTTATTTCAGCATGGAGGGTTTAAATGGAGGATCTCCTTTTCCTGTGACAAAAAAACATCTTTC ACAACTTACCTTGTTAAGACAATTTTAAAAAAGATCTTTTCACAACTTACCTTGTTAAGACAAATT
U06641d	166 C T			TATTITCCAGGCTATTITAATACGTACTITAG(C/I)TGGAATTATTCTATGTCAATGATTITITAAGCTA TGAAAATACAATGGGGGA
				GAGGCCTTATGAGGGTCCTCTACTTCAGGAACACCCCCAĮT/C]GACATTGCATTTGGGGGGGCTCCCG TGGCCTGTAGAATAGCCTGTGGCGTTTGCAATTTGTTAAGGTTCAAGACAGATGGGCATATGTGAAG
10960U	39 T C	-		IGGGGGCTCTCTGAGTCCAAAGAAAGCAAGGAAACCAAATTTAAGACTCTCGCATCTTCCCAACC
109608	2 × 2		:	GAGCAGAAGGCCAAGAGGCGAAGATGTGGAGCGTTGTATTCCAAAGGCCTCATCTGGAGCCTC GGGAAAGTCTGGTCCTI/CJACATCTGCCCCCCCCCTCCCAGCCCTCCCAGCCCTCTTTCTT
				GTGACATGAGGCCCATTCTT[C/G]GCTCTGTGTTTGAAGAGAGCAATCAGTGTTCTCAGTGGCAGTGGGGTGGGAAGTGAAGTGAGCACTGTATGTCATCTCTGGGTTCCTTGTCTATTGGGTGATTTGGAGATTTATCCTT
U10694	20 0 6	-	ı	GCTCCCTTTGGAATTGTTCAAATGTTCTTTTAATGGTCAGTTTAATGAACTTCACCATCGAAGTTAA
				AAAAAGGACTCTGGTTCAAATCCAGGTTCCATTTTGCTATCTTTGTGACCTTGCACAAGTTGTTTAAC CTCTTTGTTCAGAAATTTCTCCATGGAGTAACAATATCTAGGTTGGGAGGATTAGTGAAGTTACATGT AAAGCACAGAGGAACAGCCAAGAGAT[T/C]TTACCGTGGTCTTACTAAAGTACATATCCTAACTTGG
U13877b	162 T C			GGTTTACCTTCAGCA
U15555	187 T C	<u>;</u>	i	TTTCTGTCCACTTTCACCTGGTTTTAATAGCCAGCCAGTCATAATAGTAGAGGAATCAGTCAAGCAA AAATGCTTTGGAAGAATTAAATAAGCAATGCTGAACATCAGGAATTGTAGATATCCGTACAGAGAGT TCCAGTAAAATTTTATGAGTCCACGACCCCTTTTCTAAGCAGTCTGGTCCATG[T/C]TGGTCTCATAC CTCATATGCAGGATTCATTCA
				TCCAATTATTGGTCCCCAAAAGCAGCTTCCAACGTTTGCCATCTGGATGACAAACGGAAGGTCCACT AAAACGTCCACGGGATTAACAGAACGTCCTTGCAGACTGAAGCGTTCACACACGTT/CJTTGTTTGG
U17077	122 T C		•	AATTA
				GCACATGCAGAATAGACTCAGCCTATGTCCTGATTCCAGCTGGGTAGTTCTAGAACTT[T/CJAGAAGTTAAAA
				AGATGCACTGCCCAAATAGGACACGATGGTGTTAGCTGAAGTTTGATTAGCAATTAGGCACTTCC
U18543	58 T C		-	AAGGCTTTAGTAGAGAGCC

				TCACTGCTGTGGCCTCATACTCTTTTTCCTACAAGAAGCCTTTTAGTATATGAAAATTATT
				ACTCTTTTTGGGGGTTTAAAGAAATGGTCTGCATAACCTGAATGAA
U25975b	164 CA	A	•	GTCCAGAAGGAATTGTGGACTGA
				TCACTGCTGTGGCCTCATACTCTTTTTCCCATTTTCTACAAGAAGCCTTTTAGTATATGAAAATTATT
				ACTITITIGGGGTTTAAAGAAATGGTCTGCATAACCTGAATGAAAGAAGAAGAAATGACTATTCTCTG
-				AAGACAAC[C/G]AAGAGAAAATTGCAAAAAGACAAGTATGACTTTTATATGAACCCCTTTAGA
U25975a	143 C	 G		GTCCAGAAGGAATTGTGGACTGA
				CAGGGAGAGGTTATTCACAACCTCACCAAACTAGTATCATTTTAGGGGTGTTGACACACA(A/GJTT
				TTGAGTGTACTGTGCCTGGTTTGATTTTTTAAAGTAGTTCCTATTTTCTATCCCCCTTAAAGAAAATT
				GCATGAAACTAGGCTTCTGTAATCAATATCCCAACATTCTGCAATGGCAGCATTCCCAGCAAGAAA
U25997	61 A	:	•	201
				ATTCCTGACAGCTAAATTAGCCCTAAATG[C/T]GGGTAATATTTTTCCTCATGTTTTAAAATGAGGTT
				AATATTTGCATAAAATCCTAAAACAGACTTCTGTATAGTTTATTTA
				CAGATGTTGTGGCCTGGGAAAGCCCTCATTGCTACAGTACAAGTACAAGTCGTTGTACCTCAGTT
U28413	29 C	-		9
				TAGGGGTAGCATTTAAGATTCAGGAGTCATTAGCAGTGATGATTTTGGGACCTGCCGTATAATCTGTT
				CTTCTATTCCCACGTTAGCCA[A/G]TTGTTCTTGATGAATCTATATGAGTCATAGAACACAAATCTAT
				TGACGGAAGTCATTAGAATGGCTTGTGATATCTGATGGCTTGAACTTGCCCACAGTTGAACACAAGT
U30884c	89 A	 g	•	GCTGTCA
				TAGGGGTAGCATTTAAGATTCAGGAGTCATTAGC[A/G]GTGATGATTTTGGGACCTGCCGTATAATCT
			·-·	GTTCTTCTATTCCCACGTTAGCCAATTGTTCTTGATGAATCTATATGAGTCATAGAACACAAATCTAT
				TGACGGAAGTCATTAGAATGGCTTGTGATATCTGATGGCTTGAACTTGCCCACAGTTGAACACAAGT
U30884a	34 A	 9	:	GCТGTCA
				GGGACAGCATATGTGGCACCGCCTCTCTGTGCACGTGAAGACCAATGAGACGGCCTGCAACCAAACA
				GCCGTCATCAA[A/G]CCCCTCACTAAAAGTTACCAAGGCTCTGGCAAGAGCCTGACCTTTTCAGATA
				CCAGCACCAAGACCCTTTACAACGTAGAGGAGGAGGATGCCCAGCCGATTCGCTTTAGCCCGCC
U31216b	78 A	 G	-	TGGTAGCCCTTCCAT
				GGGACAGCATATGTGGCACCGCCTCTCTGTGCACGTGAAGACCAATGAGACGGCCTGCAACCAAACA
				GCC[G/A]TCATCAAACCCCTCACTAAAAGTTACCAAGGCTCTGGCAAGAGCCTGACCTTTTCAGATA
				CCAGCACCAAGACCCTTTACAACGTAGAGGAGGAGGATGCCCAGCCGATTCGCTTTAGCCCGCC
U31216a	70 GA	A		TGGTAGCCCTTCCAT

				TEACH TO SECTION AND THE PROPERTY OF THE ACTION OF THE ACT
				CTCCTCAC(G/A)CCACAAATCTGGTGCCTCTCTCTTGCTTACAAATGTCTAGGTCCCCACTGCCTGC
U31416c	76 6	G A		GGAAAGAAAACCCTTTGCTTAGCCCACAGTTCTCCATTTCACTTGACCCCTGCCCACCTCTCC AACCTAACTGGCTTACTTCCT
				AGTTGCCAGCTCCCATGTACCAGCAGCTGGAATCTGAAGGCGTGAGTCTTCATCTTAGGGCATCGCTC [C/T]TCCTCACGCCACAAAATCTGGTGCCTCTCTTTGCTTACAAATGTCTAGGTCCCCACTGCCTGC
U31416b	08 C	<u>L</u>	4	ACCTAACTGGCTTACTTCCT
				ACGGGTCACACAGAGAAACCTGAGTCTAGCCATGAGGGGCTTATGCTCCCAACTCACATTGTTCCTCCAGGCCTCCCAACTGCATGACTGCTGCCAGGCTGCCAGG
11375103	α,	<u>;</u>		GCTGCAAAGCCAAAGGTCTTGCTTCTATCTGGGGGACGCTGCTCGAGAGAGGCCGAGAGGCCGCAGAAC
				GACCACGCTGAAACCCACCACCACTGTGCTGACCATGGGCCCTGAGCGTCCTTA/GICCCCGAATTC
				ACGAGGCTGAGGCATCCGGGAGCTGGCGTAATGCCTGGCCGCAGTGTGTGT
037690	54 A	<u></u> 5		CTGGAAGGAACCATCCAGTAAAGGTCTTT
	······································			TGAAACCGTTTCAACATGAAATGATCTGTATTGACTAAĮT/CJACACCAGTCCACACTTCTATGACT TCTGCCATTTCAAAGACTCATTTCTGATTAACCACCGCATGAGTTGAAATTTTCAGATCTTT
				TCAGGAGTGTAAGGAAACATCATGTTTACCTGTGCAGGCACTAGTCCTTTACAGATGACCATGCTGAT
V00540	39 T	::	:	Α
				TCAAGAAGGTGACTGCCTTGTATGATGGGATGGGAAGATGAATGA
X15943	106 A		•••	GTAACCCTGAGTCAG
				AGGAAGATCCCACCGACCCTTCCTGGCCTAATCCTTTAGATTAGGTCACATTACATTAACATTTAGGA
				ACCCAGACCGAAAAGTTGCTGAAAGGGAAGGAGACACATTCACAAAGAAAAGTTGCGAAAATTGCG
X52011b	148 C	-		CGAGTGGCTTAGGTCTAGCCT
				AGGAAGATCCCACCGACCCTTCCTGGCCTAATCCTTTAGATTAGGTCACATTACATTAACATTTAGGA
			•	ACCCAGACCGAAAAGTTGCTGAAAGGGAAGGAGACACATTCACAAAGAAA[A/C]GTTGCGAAAATT
				GCGAAATCTGTTGTGCACGCTCAAATGAAAACGCCTTTCGGCTTTTGGGCTTTTTTTT
X52011a	118 AC	 O		CGAGTGGCTTAGGTCTAGCCT

		,	CAGGCCACCTGTCTTCTCTCCCACQ(A/G)TGCACAGCTTCCTGAGTCACCCTCTGTGCAGGCCAGCTCCTCTCTCAAATAGCAAGGCCAGGCCTCAGGACTTGCCAGGCTTGCCAGGCTTGTCAAATAGCAAGGCCAG
X54741	24 A G		GGCACAGCTGGAGACGATCTTGCTGGCAGGGCCTGGCCT
			AASCATTECETTIACAGATCAATACATTIATATTATTATTATATTATATT
X54869	 و م		AAATCTGAAAATGAATTATGTTATTTGCTCT[A/G]ATACAAAATTCTAAATCAATTTTGAAATAG
			GCCGTGTCCTGACACCTCCCAGAACGCAGGTGCTGGCGCCCGTTCTGCCTGGGGACCCCGGGGAACCTCTC
	(CTGCCGGAAGCCGGACGGCAGGGATGGGCCCCAACTTCGCCCTGCCCACTTGACTTCACCAAATCCCT
X66924	147 GA		ICCI GGAGACI (GIA)AACCI GGI GCI CAGGAGGACI GI GAACI I GI GGCCI GAAGGAGCAAA
			GAAATGTGAAAAATGTGACAAAGCCTTTAAGCGGTTGTCACACTTGATTGTATATAAGATAA[T/G]T
X78932	62 T G		TTGCACAGGAAAGCATTTATACTTGAGAAAAATTGTATAAAGAATGGAAAAGTCATTAATATCTGCT
	Г		
			CICAACCCATAACCICAACCACATGII/GJIATICCICCACCACATGCCACATGCCACATGCACCAACCCAAC
			CTCATCCTCATCCCCAACTGCAGCCCCAAACCCAAGCCCAGGGCCATCCCCAAACCCATCCCAAGCC
X80026	25 T C	•	AAACTCAACACCATCC
			ACCCCAACTCAAGTCCCAGGCCCCAGGCATCTTTCCTGCCTG
			CGCCTGGAGCAAGTGCTCAGCTACTTCTCCT[G/C]CACTTTGAAAGACCCCTCCCACTCCTGGCCTCA
X80197b	O 5 66	•	CATTICTCTGTGTGATCCCCCACTTCTGGGCTCTGCCACCCCACAGTGGGAAAGGCCACCCTAGAAAG
			ACCCCAACTCAAGTCCCAGGCCCCAGGC[A/G]TCTTTCCTGCCTGCCTTGCTTGGCOCATCCAGTCC
			AGGCGCCTGGAGCAAGTGCTCAGCTACTTCTCCTGCACTTTGAAAGACCCCTCCCACTCCTGGCCTCA
X80197a	28 A G		CATTICTCTGTGTGATCCCCCACTTCTGGGCTCTGCCACCCCACAGTGGGAAAGGCCACCCTAGAAAG
			GGCACCCAGAGTGACCACAAGTCCAGCAGGGAGGCGCGCGC
			CAGCCCCGGAGAGGTCCTGACCTGGGGGCTTCTCCAAGCCTCACTGCGCCACGCTCCCCGCCCCGCTCT
			CTTTCTCCCAAGC(G/AJAAACCAAATGCGCCCCTTCACCTCGCGTGCCCGTGCGAGGCCGGGGGCTT
X85106	150 G A	***	CTTCAGAGC
			ACCACCAGCCATGGTCTAAGGACATGGATCGGGTGCCCCCAGACGTGTGCACAGGGGACCCTCTGCCC
			CACTCTGGGCTTTTCAGATACTCTGACCAAAAAGCCTGCTTTAAACCGCAAGATGGGGGCCTT/GJGGGC
			ATGCGCAGGAGGAGCCATCGGGTACTACGCAGCAACTCACAACTGTCCAGGCTGAGATAAATCCC
X87160	128 T G		GGGA

			CATCCCAAGGCACTGGTGGTGACTCTGCTGCTJACTGACCCAGAGCCTCTGCCTGTGTGCACTGC
X87344	34 C T		AAGCIGIGICIACICAGGCCCCAAGGGGACICICIGIIICCAIICICCCCCAAAACAAGACTTTACCGACTTTACCGACTTTAGACAAAACAAAAAAAA
			GGTGGGCTGGTATCTCAGAAAGTGCCTGACACAACTAACCAAGCTGAGTTTCCTATGGGAACAATTGA
			AGTAAACTITITGTTCTGGTCCTITITGGTCGAGGAGTAACAATACAAATGGATTTTGGGAGTGACTC
			AAGAAGTGAAGAATGCACAAGAATGGATCACAAGATGGAATTTA[G/T]CAAACCCTAGCCTTGCTT
X87838	179 GT		GTTAAAATT
			GTTCTGCTGCTCTACACAGGGGCCCTGTACAGTGAATGGTGCCATTTTCGAAGGAGCAGCAGTGTGA
			CCTCCTGTGACCC A/G TGAATGTGCCTCCAAGCGGCCCTGTGTGTTTGACATGTGAAGCTATTTGAT
			ATGCACCAGGTCTCAAGGTTCTCATTTCTCAGGTGACGTGATTCTAAGGCAGGATTTGAGAGTTCACA
Z14138	81 A G	•	GAAGGAT
			TAATCCTCACCATTCCTCAGGTATAAGTTCTATAAACAGGCTTGGAATCTGGGTAATTAAAAAACAGA
			AAATTATAGTCAATATACCATGACATGAAGAATGAATCCATTCTTTGGAGATGGAGTATACATGACT
			GCAACTGTATTTCATACGTTCTTTTCAAAGTGGGATAGCTATTGCAGCTTAAAGAGC[A/C]CAGGTTC
Z18859	191 A C	:	CAGTACTGGTTTTCCAA
			AGAACCTGACCAGATGTGGCTCGGAGGGGAATCCAGACCCGCTGCTGTTTGCTCTCCCTCC
			CACTECTECTETTETTECTETTETETETETECTGCCACGCCTTCCTTTCCCTCCTCCTCCCTCTCCG
			CTCTGTGCTCTTCATTCTCAQQAJGGCCCGCAACCCCTCCTCTCTCTGTCCCCGCCCGTCTCTGGAAA
Z23091	159 GA		ствавсттва
			GTTGGCATTGTTAGTAAAACTTCATAGGTGAAGAGGAGGATCAGTGAGATTAAGTTATTTAT
			GTGTGGTTTTCTGCAAGGGCAGGTTTGAAACCTGACCCTAGTTGTGCTCCAGGACCTA(A/G)GCGTGC
			TCACTCTACCTTGTCTTTGTGTTGAAAGGAGTGGTTTCCCATGACTGTTTAAGTGACAAGTGCCATGG
11595b	125 A G		ATATCTACACCGTCACCAGACTAGATTGTCTCAATGTCCTTGGCTTGCGAC
			GTTGGCATTGTTAGTAAAACTTCATAGGTGAAGAGGAGGATCAGTGAGATTAAGTTATTTAT
			GTGTGGTTTTCTGCAAGGGCAGGTTTGAAACCTGACCCTAGTTGTGCTCCAGGACCTA[A/G]GCGTGC
			TCACTCTACCTTGTCTTTGTGTTGAAAGGAGTGGTTTCCCATGACTGTTTAAGTGACAAGTGCCATGG
11595	5 125 A G		ATATCTACACCGTCACCAGACTAGATTGTCTCAATGTCCTTGGCTTGCGAC
			TATATCACATTAGTATGTCACTGCCATGGTAAGGACTTTGATCACTAGGAAATAAGAACACTTTGAA
			TGGTCTTGTCCTTTCAATAAAAAGAGTGACATGATTGAACATGTGTTTTAGATAAAGGGCACTT[G/T
			JGCAGGAGTGTTTAGGATGAAGAGAGAGATTAAGGAAGATCAGGAAGAAAAGTAGCAATGGGA
1241	241 131 GT		ATGAAAATAGGAGGCCCTGAGATCCACTGGATAATCTAAAAAACCAAGAGAAAG

			CTCCCATCACCTACACTCTAAATTTCACATGTTTCATTACCCTAAAAGAAATCTTGTACCCATTA
		-	GCAATTATTCCTCATTCTGCCCTCACCCCCAGGCCCTACTCTTTATCGCTATAGATTTGCC[C/TJACT
1282	130 CT	:	TGACATATCATACACATGGAGCCATACATATGTGTGCCCTTCATGATTGTGTCTTTCAAGGT
			AGTATCACACATACTTAATATTAGATATACACAATAATAAAAATCACTCCCTACCTTGAAAACTTT
			A[C/T]AGAAGCATTTTTAATTTTACAACACAAAGCTCAAACGAACCTACAATAAGTCTAGTGTG
			TTTACGTGCCAAGGGATAAGGCTGAACAATAAATTAACCCTTTAAAAATGTCTATGAACAAGTACAA
6810	68 CT	***	TTTCTTTTTGAGTTCTGCAGAGCAATGACCACTAAGAAATATTTTAAAGGC
			CCAAGTACATTGGGTGAACGATGAGCTAGCTGTTCTAGTATTTGCTTTTTGTAATCCAGTTAAGACCA
			TCAGCATATACAACATCATCACTAACTCAACAATGTAGCTGCAGGGTAAC[ACJTGTGGATACCCTG
		•	TGTGCTCTACTGGCCTCCAAAGGCATTCAGGGGATCATCAAAGATGTTGGACACCTTGTGTTCAAATC
6817	118 A C	:	TTGGTTCAGGTGCGGCCTGTGCAGATCGGCTTTTGGTTTGGTTGG
		**	CCATTITATTITICICTAAATTITAAAATAGAAGACTTTAATGGAAAACATTTAGTACCATCATGTCA
			CCCTGAATGCCAGCAATACCTCGACTTTTACACACGCAGGAAGCCTAGTAAAAGCCCCGGTCAGTAGT
			ACACATTTCTCTATGGTCCTTCAACAGTTTTGCATATACAAAATTTTCTGCTATTTTGCTTTAGCAAA
6819b	212 C	•	CAGCAATAACTTTTGTGTTTCCTATATGACACCTAATATCCA
			CCATITITATITICICIAAATITITAAAATAGAAGACITITAATGGAAAACATITAGTACCATCATGTCA
			CCCTGAATGCCAGCAATACCTCGACTTTTACACACGCAGGAAGCCTAGTAAAAGCCCCGTCAGTAGT
			ACACATITCTCTATGGTCCTTCAACAGTTTT[G/T]CATATACAAAATTTTCTGCTATTTTGCTTTAGC
6819a	166 GT	•	AAACAGCAATAACTTTTGTGTTTCCTATATGACACCTAATATCCA
			CTGGTATGTCATAAGCAATCCATAATTGTTATAGCTATTĮA/GĮTTATACTATGGCACCATTTGGGACA
			CAGATTATATATGTCAGACACCACGAATGTCCTTTAAGATATGCAGCAAGCA
681xx	39 A G	••	TTAACAAAAGAAATGAACGTCTAGG
			AGGATTCCCTCTTTTTCTATTGGATTGGAATAGTTTCAGAAGGAATGGTACCAGTTCCTCCTTGTACCT
			CTGGTAGAATTCGGCTGTGAATCCATCTGGTCCTGGACTCTTTTTGGTTGG
			CACAATITCAGA(G/I)CCTGITAITGGTCTATTCAGAGATTCAACTTCTTCCTGGTTTAGTCTTGGGA
6972b	149 GT	:	GAGTGTATGTGTCGAGGAAT
			AGGATTCCCTCTTTTCTATTGATTGGAATAGTTTCAGAAGGAATGGTACCAGTTCCTCCTTGTACCT
- tur			CTGGTAGAATTCGGCTGTGAATCCATCTGGTCCTGGACTCTTTTTGGTTGG
			TTGCCACAATTTCAGAGCCTGTTATTGGTCTATTCAGAGATTCAACTTCTTCCTGGTTTAGTCTTGGGA
6972a	122 AG	:	GAGTGTATGTGTCGAGGAAT

				ACTOR & SOCIAL S
				ATGAAATAAGCCGCTAACCAGATTTTACCTTGGAGAAATGAAAATTATTTCTTGAGGATGCTTTTA
7598k	210 A C	:		ATATTTGATCCCATTATGTGAGAGATTTTCCTGATATGTTATCTTATTTTATATTTTCCCGTATTTTCCT
				AAAGGTAAATCAAAGTTCCCTCTATAAATTATGATTTACAAAAGACACCCAAAGCAAAGGAACTCA
				ATGAAATAAGCCGCTAACCAGATTTTACCTTGGAGAAATGAAAATTATTTGTTGAGGATGCTTTTA ATGATAATTATATTAT
7598j	208 A T			CAATGC(A/T)GA
				AAAGGTAAATCAAAAGTTCCCTCTATAAATTATGATTTACAAAAGACACCCAAGGCAAAGGAACTCA
				ATGAAATAAGCCGCTAACCAGATTTTACCTTGGAGAAATGAAAATTATTTCTTGAGGATGCCTTTTA
				ATATITGATCCCATTATGTGAGAGATTTTCCTGATATGTTATCTTATTTTATATTTTCCC[G/I]TATITT
7598i	192 GT		:	CCTCAATGCAGA
				AAAGGTAAATCAAAAGTTCCCTCTATAAATTATGATTTACAAAAGACACCCAAGCCAAAGGAACTCA
				ATGAAATAAGCCGCTAACCAGATTTTACCTTGGAGAAATGAAAATTATTTCTTGAGGATGCCTTTA
				ATATTTGATCC[C/T]ATTATGTGAGAGATTTCCTGATATGTTATCTTATTTATATTTTCCCG1A1111
7598h	144 CT		; !	CCTCAATGCAGA
				AAAGGTAAATCAAAGTTCCCTCTATAAATTATGATTTACAAAAGACACCCAAGCCAAAGGAACTCA
_				ATGAAATAAGCCGCTAACCAGATTTTCCTGAGAAATGAAAATTATTTAT
75989	142 CT	•	. !	CCTCAATGCAGA
		_		AAAGGTAAATCAAAGTTCCCTCTATAAATTATGATTTACAAAAGACACCCAAAGCCAAAGGAACTCA
				ATGAAATAAGCCGCTAACCAGATTTTACCTTGGAGAAATGAAAATTATTTCTTG[A/G]GGATGCCTT
				TTAATATTTGATCCCATTATGTGAGAGATTTTCCTGATATGTTATCTTATTATATTTTCCCGTATTTT
7598f	120 A G	•	:	CCTCAATGCAGA
			į,	AAAGGTAAATCAAAGTTCCCTCTATAAATTATGATTTACAAAAGACACCCAAGGCAAAGGAACTCA
				ATGAAATAAGCCGCTAA(C/T)CAGATTTTACCTTGGAGAAATGAAAATTATTTCTTGAGGATGCCTT
				TTAATATITGATCCCATTATGTGAGAGALLICCIGALAIGITAICHAITHAIAITHCCGATAATATT
7598e	83 CT	•••		CCTCAATGCAGA
				AAAGGTAAATCAAAGTTCCCTCTATAAATTATGATTTACAAAAGACACCCAAGCCAAAGGAACTCA
				ATGAAATAAGC[C/T]GCTAACCAGATTTTACCTTGGAGAAATGAAAATTATTTCTTGAGGATGCCTT
				TTAATATTTGATCCCATTATGTGAGAGATTTTCCTGATATGTTATCTTATTTAT
7598d	77 CT	•••	•	CCTCAATGCAGA

				AAAAGGTAAAATCAAAAGTTCCCTCTATAAATTATGATTTACAAAAAGACACCCAAGCCAĮA/GJAGGAAAC TCAATGAAATAAGCCGCTAACCAGATTTTACCTTGGAGAAATGAAAATTATTTCTTGAGGATGCCTT
7598c	56 A	 		HAATATTEATCCCATTATGTGAGAGATTTCCTGATATGTTATTTATATATTTCCCGTATTTT CCTCAATGCAGA
				AAAGGTAAATCAAAGTTCCCTCTATAAATTATGATTTACAAAAGACA(C/G)CCAAGCCAAAGGAAC TCAATGAAAATAAGCCGCTAACCAGATTTTACCTTGGAGAAATGAAAATTATTTCTTGAGGATGCCTT
7598b	47 C	: 		CCTCAATGCAGA
				AAAGGTAAATGAAGGCGCTAAGAATTTAAATTTAAATTTACAAAAGAAAATAAGCCCAAGCCAAAGGAACTTTAACAAAAAAAA
7598a	30 A	 	ŀ	TTAATATTTGATCCCATTATGAGAGATTTTCCTGATATGTTATCTTATTTAT
7998c	116 A	Т	I	GTGTTGATCTCACTGGGTGCTGCCGGGGCTGTTCCTATTCAGACATCTTGCCAGCTCTCCTGTA ATACTTTAATGAATGGGTGTAGTCCTATCTTCTCAAGGTCCCCAAATAATGAATG
7998b	94 A	C		GTGTTGATCTCACTGGGTGCTGCCGGAGCTGTTCCTATTCAGACATCTTGCCAGCTCTCCTGTA ATACTTTAATGAATGGGTGTAGTCCTJACTTCTTCTCAAGGTCCCCAAATAACCTTGAGGTTCCT
7998a	75 A	т	•••	GTGTTGATCTCACTGGGTGCTGCCGGAGCTGTTCCTATTCAGACATCTTGCCAGCTCTCCTGTA ATACTTT[A/TJATGAATGGGTGTAGTCCTATCTTCTCAAGGTCCCCAAATAACCTTGAGGTTCCT
				AAATACAGAATTITTATTTAGAAACTGTTTAAAGTAGAAAAAAAACCCTGTCAAGAAAGA
8071	119 A	 O	•	AATAGCACCACTGTCATTTGAACAATGGCTAGTTACTTGCATTTTTTGGCATTGTTAATCACTGAATC
8467b	93 C	 F	:	AAGGCTITCCTCTAAACATCAGTCCTACGGAGAAACTGGGAAAATCCTGGATATTTGGCTTATCACTT TGACGCAAAATCCACTTTGCTGTAA(C/T)GGTCATCCGAACTCCCTTCAGAGAGACAAGCAAGAAAA TTAAGTGTGATACTGGAGCTTATGCATGCAAAAGCTTGCAAAAAGTATAAGGAAAAATTACTG
8467a	70 A	 G		AAGGCTTTCCTCTAAACATCAGTCCTACGGAGAAACTGGGAAAATCCTGGATATTTGGCTTATCACTTTG[A/G]CGCAAAAATCCACTTTGCTGTAACGGTCATCCGAACTCCCTTCAGAGAGAG
				AGGGTTCAGGGTTTGGTTTTAAATCAGGCTGCACACCTTTCAAATCAATC
8498	3 84 CT			TTATACATCCTTCTCCTCAATACAGAACCAGGAATGTAATTTTCCTAACTCAG

				OV LOV V V V V V V V V V V V V V V V V V
				CTAAGGAAAAATTTAATGATGGAAATATC[G/A]ACAAATATLCAACATCATTTACAATGATTCTTACATT]
WI-18562	29 67		i	TAGCATTAATCAGAAACGA
				ATAGCAGACTITITAATCAATGCCAGAGACAAAGTGAGGCCGAGCTAAGAAC(A/C)CGCTCAGCTTCG TTACAATGAAGAAATGGTTTCCTTTCGATGCAAAGTATAATTGTAAACCACAGTGCTCGCACAGTTC
WI-18618	51 A	:- O	1	AC
				TAAGCTGTTCAGGACTGGACTC[C/T]GGTCCCTTTATTGAGACTGACAGGCCAGTGGGTCCACCCAAA
WI-18683	22 C	:		CAAAAAIIAAAIIICICICOCAAAAAAAAAAAAAAAAAA
			<u>.</u>	GACTITGGTGATITAATTGCTTTTCCCTTAAATATGAGAAATAGGTGTAATTTCTCCTTTTGTTCTTTT
		-		ACTACA[G/A]CCGGAGTGGTAAATACTACCTACTGCCAACAACACGGGCATCCACTCTGTCT I CAA
WI-18520	75 6	A		TGCCTCTTCCGTGAGAC
				AAATAAAGTTTTATTGGCACACACAGCCCACTGGATGACACATTGTCCACGGCTCATCTTGCAA
WI-18563	94 A	<u>ප</u>	•	TACAATAGCAGGGTTCACTAATGTGAC(A/G)GACATGGTGTGGCTCACAAAGCCAAAGATATT
W.				GTCCTATTTCAATTTAGCTAGACCCATTTCATTCTGTTTAATGGCTACATTTGTTTTTCATTGTGAGAC
18582b	T 69	A	:	[T/A]GTGCCATAATTTATTTAATCAGTGCCATATTGAAAGACATTTGGATCGTTTCCCAG
				AACTITATITGATCTGACGATCAGCGATTAGTTCTCATCCACATTGACTGTCTGT
WI-18723f	94 G	Α	•	TGGTAACAGGTACATAGGTAACCAAA[G/A]TATATAGCTTATTTGGTGAATCTTCATCCT
-i×				AACTITATITGATCTGACGATCAGCGATTAGTTCTCATCCACATTGACTGTCTGT
18723e	711T			TGG[T/C]AACAGGTACATAGGTAACCAAAGTATATAGCTTATTTGGTGAATCTTCATCCI
-i×				AACTITATITIGATCTGACGATCAGCGATTAGTTCTCATCCACATTGACTGTCTGT
18723c	96 A	 G	<u>:</u>	TGGTAACAGGTACATAGGTAACCAAAGT[A/G]TATAGCTTATTTGGTGAATCTTCATCCT
				TTTATTACAATATTTAGGTGGCACAATAACTAACAAGCTTCTGA[G/A]ACAGGAGGTAACATTCTCA
WI-18619	44 G	Α	!	TAGACTTTGCAACTCAGCCAGAAGTAAAACTCGAAATA
				TTATTCACAAAAAGTGATATTGCAGAGGGTCTGGGGGCTGTACATGGGCAGGGGCTTGGTGAGCTTTG
				TACATGGGGAJCTGGGAGACAAGGGAGCCTCCAGGTGGAAGGGTATTTTTAATAAAAAAAA
WI-18715	76 G	A	<u>:</u>	TGGAGCTACAACCACCCC
				GTAAATAAAGTTITATTGGCACAGCCACGCTCGTTCATTCATATGCCATTGACATCTGCTGTTGCCT
				ACACAGCAGGGTGGGGACCTGCTCTCACGGGAGAGCTĄ(G/A)TTGTTTAAAGCAGTGGTCCCCAAC
WI-18535	107 G		•	CTTCTGTGGTCCCCCGTG
				AGAGTGGTCAGAACACAGGCCGAATCCAGGCTCTATCACTTACTAGTTTTCAGTTCTGGGCAGGTGAC
				TTCATCTTCGAACTTCAGTTTCTTCATAAGATGGAAA(C/T)GCTATACCTTACCTACCTCGTAAAA
				GTCTGATGAGGAAAAGATTAACTAATAGATGCATAGCACTTAACAGAGGAGGCATAGCATACACIGIII
D17525	107 CT			ICAAI AAAI GCACCI I AGCAGAAGGI CGAI GI GI CI ACCAGACCAG

			TAATTGGCCACTGCCTTATTTACAAAACAGAAATGTCTCATGACTTTTTTATGTCTCCT
			TTAATAGATCTCATACACCAGAATTCAGATCATGAATGACTGAC
DWU-133c 313 A	G	•••	AATTCAGTAAATGGTATCACTCGTTTAACCCCTTTTAAAGATATGATTAGACT
			TAATTGGCCACTGCCTTATTTATTACAAAACAGAAATGTCTCATGACTTTTTATGTGTTACCATCCT
			TTAATAGATCTCATACACCAGAATTCAGATCATGAATGACTGAC
1	(GATTTAAAACTAAGACTGGCTTGTGGTTAAATGAATATGTTTTAAAGATATGATTA
DWU-1330 236 1		•	ANTICAGIAAATGGIAICACICGITTACCCCTTTTACTTTAC
			TAATTGGCCACTGCCTTATTATTACAAACAGAAATGTCTCATGACIIIIIIIAIGIGIIACCAICCII
	-		GATTTAAAACTAAGACTGGCTTGTGGTTAAATGAATATGTTCAGTTTTTGAATTTTAATAGTAA(C/T
DWU-133a 199 C		•	TCCAATTCAGTAAATGGTATCACTCGTTTACCCCTTTTAAAGATATGATTA
		i	ATGAGATCCTTTAAATCCTTCCATGAAACGTTTTGTGTGGTGGCACCTCCTACGTCAAACATGAAGTG
		-	TGTTTCCTTCAGTGCATCTGGGAAGATTTCTACCIC/TJGACCAACAGTTCCTTCAGCTTCCATTTCGCC
			CCTCATTTATCCCTCAACCCCCAGCCCACAGGTGTTTATACAGCTCAGCTTTTTGTCTTTTCTGAGGAG
DWU-36 102 C	-:-		AAACAAATAAGACCATAAAGGGAAAGGATTCATGTGGAATATAAAGAT
			GTGTATAAAATGCAACTGTTGATTTCCTCAACATGGCTCACAAATTTCTATCCCAAATCTTTCTGAA
			GATGAAGAGTTTAGTTTTAAAACTGCACTGCCAACAAGTTCACTTCATATATAAAGCATTATTTA
			CTCTTTTGAGGTGAATATAATTTATATTACAATG[G/T]AAAAAGCTTCTTTAATACTAAGTATTTTTCA
DWU-387 169 G	T	1	GGTCTTCACCAAGTATCAAGTAATAACACAAATGAAGTGTCATTATTCAA
			ATTITAGTGTCTTTGCGTTAAAAAATCATTGCAAAAGTATTCTGAACTGTCAAGCTGCCCAGTCAGAT
			GGGCTGTTGCCATTTAAAATCACTGTAATTAATTAGTTTGATTAGAGCACAAAGCTTAGCTAATCAA
			CCATTATTTTCATTTGTTTGTTCTAAGAGGATTGANAATCAGTTTAGTTT
DWU-447b 172	•	:	GCCTTTCTTACAATGAAGAGATGATTCTTCTAGTTTATGGTTA
			ATTTTAGTGTCTTTGCGTTAAAAAATCATTGCAAAAGTATTCTGAACTGTCAAGCTGCCCAGTCAGAT
			GGGCTGTTGCCATTTAA[A/G]ATCACTGTAATTAATTAGTTTGATTAGAGCACAAAGCTTAGCTAAT
			CAACCATTATTTTCATTTGTTTGTTCTAAGAGGATTGANAATCAGTTTAGTTT
DWU-447 85 A	<u>ი</u>	:	TTAGGCCTTTCTTACAATGAAGAGATGATTCTTCTAGTTTATGGTTA
			GTAAAATTCAGTTTTTTCCAGTTCCTCTTTTGTGCTGCTTCTCAATTAGCGTTTAAGGTGAG[C/G]AT
			AAATCAACTGTCCATCAGGTGAGGTGTGCTCCATACCCAGCGGTTCTTCATGAGTAGTGGGCTATGCA
DWU-476 63 C G	 G		GGAGCTTCTGGGAGATTTTTT

			TCATACTAGGGCAGTATCTCCTCTAGCTAGTGCCCATACAGAAAATTCTATCACCATACAAAATTTA
			ATJTGCAGTATTTATGTTTTAAAGCACAGGTGTACCGAAAACTGTGAAAAGTCTGAAAAGTTTAGAAAGTTTGCATGCA
DWU-505	67 A T		TAACTITIGACTITIGAGCTTTAAACTTTTAA
			AAAATCCAGGCATTTCGAATCTGTTTTTCATGATTTATAGAGGTTTACACAAAGTGCCACTTATTAA
·			TGCGTATGGCAGTGAGCAGGTATGTGTTTGCTTGCACTGAAAATTAAATTGCTATCAAGAGC
DWU-512	131 A G	•	AAACTATGAACGGTTTTTTATTCAAGATGTCTCCAGAGTGAAGATGCCGAG
			AACTGCATATAGATAATTATCCAGGATGTGGCTCATTCTTTTCAGCTTGTTTCTATACTGTTTGTA
			ATATACAGTTTTTGTAACCATATGA[A/C]AAGAAGAAGAAGTCTATGCTTAGGCCAGTCAGTACA
DW11-525	97 A C		CCCACCAGGATTAATATCTCTAAAATTCTAGTCTCTGATTTGC
			CATTICITIGIGAAAGGIAATGGACTCACAAGGGGAAGAAACATGCTGAGAATGGAAAGGTCTACCGG
		-	CCCTTCTTTGTGAACGTCACATTGGCCCTGAGCCGTGTTCAGTTCCCAGGTGGCAGACTCGTTTTG
			GTAGTTTGTTTTAACTTCCAAGGTGGTTTTACTTCTGATAGCCGGTGATTTTCCCTCCTAGCAGACATG
DWU-59	94 C T	:	CCACACCGGGTAAGAGCTCTGAGTCTTAGTGGTTAAGC
			CTTGATCATGGGGTGGAATTTTGTGTATCTGGGCTTCATGGGATGCATAAAATTTTCCAGTTGGTAAG
EST11	68 C	•	CAGCAGGTGCCGAGGTCTGGATCAGAAAAAAGGCA
	-		CACACTGGCATCTAGGCCTTCGCCTGCATTGCAGAAGGAGAGCCAGGTCCCCCTCCTGGAGAA(CT)G
			CTGCGTTCCCCAGCCCCACACCGGCTTTGCACCACACAGGCTGTTGAGGCAGGAGGTGGGTAAGACGT
-iw			AGCTGTAGACCCAAAGCAACCACCAGCCCTGGGACCGGGGGGGG
19856b	. 63 C T	•	AAGTGTGGTCATCCCATCATTAGACAAGACACATCCTACATAATAAAAAGT
			TCCATTTACATTTGGTGGCATTTGTTGAATAGCTACAGAA[A/G]GAATGAAAGTGCACCATCAGAGT
			GTAATTAGGTCTGTGACCCAGGAAGTGTCTGTTAAACAGAGATTTCTCAAGGGCAAAGTGGCTTCT
WI-18014	40 A G	:	A
			TTCCAATGTAAGAGTCAAGTACCAAGTTAAACTTCTAGAAATACAAAGAGAACATGATAAAAATCTG
-iw			ATCACAGTGGAAAATTTTAATTCTTTCATAA(T/A)CTGACAGGTCAAGTAAGCTAAAGGAAACATAT
18036b	97 T A	•	TAGGGATCTGAAGG
			TTCCAATGTAAGAGTCAAGTACCAAGT[T/C]AAACTTCTAGAAATACAAAGAGAACATGATAAAAT
×i-			CTGATCACAGTGGAAAATTTTAATTCTTTCATAATCTGACAGGTCAAGGTAAGCTAAAGGAAACATAT
18036a	27 T C	•	TAGGGATCTGAAGG
	- (-	TGTAAGGTGACTTCTATAAGCTTCCTAAACTGTCAAACTTTCATTTACTGAGATTATTTCAGGCCAAT
WI-18046	72 C T	1	GTGT[C7]TGTTGGGTCTGAGATTGATTATCAGCTGGGTAAGTTAACCTGTTTCA

				AGGCTTTAAACTGATAACAATTTGCCTTTAATCACATACAAAAACTCTGCACTTTCATTCCTTC
WI-18063	105 G	G A		CCATGTTTCTGATTTTGATGTAAAACTTAAAATTTGT[GAJTCCTTTAACAATATACTGTAGCTGCA
1WI 1907B	ν α	ļ-		AGTTGAAAGATCAGAGAGGTTATGGTTGGTGAGTAGCTGAACTCAGATTCAAACCTGGTCCAGTGTG
				CCAAAGCTCACTCAGTATTTAATCATCTGCTAATTTCATCCTTTGTTAATTCCATCAGACACTGTGGT
WI-18091	90 T	101	ł	TTTCATCTCTAGAAGTTTGACT[T/C]GGGCCTTTTTATACCTTCCATATCTCAACTTGTTAAGC
				GCAATCTGTAACAGTTTTGGTAGTGGTATTACAGAGAH/CJTTGTAAAATGGATTGGAGTACTTAC
WI-18119	38 T		:	CACTATTCATCTGCTCTGAAATAGTTCACTAACCAAACTACTGACAACAGIIIAAIIIIGGIICII
		•		TTCAAGATAATTACAATTGGAAGGGGACCAATAATTCCACTTTTTAATCGAAAATAATCTATATAC
WI-18142	E6 T	r G		T/G CCCAATAAACTCACAGTAAAATAAGCTTCAAAAAGCCTTAAGACACCAAAAGAGGAAAA
				GCATAGGGTTGAGGGGTGTACAAGAGGAGAACCAGATTCAGTCCATGCCTGGAGGTTAGTCTGGGGG
WI-18178	68 T	т с		G T/C CGGCGGGATGGACACACAGACACATAGATCTGGCATCTGATAGCAGGGCATACAG
				TCAATCTGAAAACTTGCTGTAAGCCAGCATGGGGTGATJGGGGGAGGTGATTATGGCTGGGGAAGATG
WI-18244	35	GT	:	GGCACTCACCCGACAGCAGCATCTAGCACCACAGTGACAGGGACGTTGAGGTGGCAGAGGGCTTT
				ACAGATGTCAGTTGTTTGAATTGGCCCATTAAAGTATGGGGCTTTTCTTGTTAAAAAGTCATTCCAAA
				AGGCTTGGCAAGAGTTTGCTATACAACGGAGGGACAGAGAAACATGA[GA]CTGGGGAGTAGGCTCT
WI-18245	115	GA	:	GACAGAAGGTGGCTGTC
				GATTTGAAGGGATTGCTTTATTTAAC(G/A)TGAAAAGCGTGATAGAGGAACTGTTTAAGATAAACAA
WI-18261	26	GA		CTTATAAATACTCCCAATTGTAGAAGTGAAAGATTG
				TAGGAGGGAAAAGGAGGTGGGCTGCCTGGGCCCTCAAGACATGAGAAACGGGTGGTGGTTCCAAGC
WI-18268	88	CT		TTCCTTACTTCCCCCATAGATIC/TICCTGACAATGTGCTGCAGAGGCCTCCAACCTGGAAC
				TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACTTGGTTTGCCAATTTTTT
				ATCTATTTGGGTCTGAGAATTCCACAATTTGAAGAATT[C/A]TTTTGCCAATTATTGACATATTCTG
WI-18299f 107 C	107 (C A	1	CAG
				TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACTTGGTTTGCCAATTTTTT
-i×				ATCTATTTGGGTCTGAGAATTCCACAATTTTGA[A/G]GAATTCTTTTGCCAATTATTGACATATTCTG
18299e	101	A G	•••	CAG
				TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACTTGGTTTGCCAATTTTTT
<u>-i</u>				ATCTATTTG[G/A]GTCTGAGAATTCCACAATTTTGAAGAATTCTTTTGCCAATTATTGACATATTCTG
18299d	77 (G A	i	CAG
				TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACTTGGTTTGCCAATTTTT
-iv				T/GJATCTATTTGGGTCTGAGAATTCCACAATTTTGAAGAATTCTTTTGCCAATTATTGACATATTCTG
18299c	67	67 T G	_;	CAG

	-			
Ä				TTATCTATTTGGGTCTGAGAATTCCACAATTTTGAAGAATTCTTTTGCCAATTATTGACATATTCTG
18299b	52 G		•	CAG
- IM				TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAAJC/IJTTGGTTTGCCAATTTTT
18299a	48 C	:- -	:	CAG
				TCAACTTGTACCAAGTTTAGCAGCAAGAGGATACTTCCTTAGAGACTTTCAGTGGACTTAAAACTCAG
WI-18307	76 G	A		TTCCGCTGIG/AJTGCTATGTAAAGCATCCACGATGGTTTTATTGTACTCTGCAATCTGCI I GGI CAC
	_			TITGGTATGAAATCTTTCTCTGACATTTACCAATCATCACTTAAACTCCGGGGGGGG
WI-18324	72 C	; 		TATCIC/TJTAGATCCAAATAAAGCATGCAGAAGTG
				ATGAAAGTCACTTCAATCATAAGGGTCAAGAGAAAGAATGTTTTCAGA[T/C]TAAATCTATGAAAA
WI-18350	48 T	O	:-	GGTGTGTATCTGCTTGCAATTTAAGAAACAACACAAGTCA
				TCTTGACATGATCTGTGAAATAACGTGATTGTGGTTGAATTTCCTGGAAAATTTGAAGAATAAATTG
WI-18395	77 G		1	ATTATTCAAG[G/C]TGTGCATTGGTTTATACATATCTCCTCTTCTCTTAATGCAAAGCTATG
				TGCAGTGGCAAGACACTCTCTCGAGGAAAAAAAAAAAAA
WI-18398	62 G		1	GATAACATTGCCAGTATAACCATAATTCAAAACAAGCAGCAGAATTTGGAGGATAATTTGTT
				CTCGTTGGTATTCTCTCTCTCCCC/AJTTCCTTTTCGCTCTTTCTAAAATTAAAGAAAAGCAATGGAATT
				TTAAAAGATCATCTAAGAAATAAGAACTTACATATGTAACATTTAACTTATCAACTTGTACAAAGTC
WI-18396	21 C	A	:	ААТGАААА
ż				AAGATGGGAAAGAGGAAATC[C/A]TTTTTCTTACTAGAGATTTTTTTCCCTTTAATCCTTTTCAAAT
18409a	200	C A	† •	TCAAAGGATCATCAAAGGAGCAGGAGGAGCTCTGGGGCCCCAGAGGCCCCAAGTGCTA
				AAAAAGGAAAAGAAAGGATGGAGTAAGAGAGAGAGACAGAGAGGAACAAAATAAGTTTCTGG[C/T
				JTTGGCTGATCTGGGTGATCAGGTGGACACTATTATCCCAGAAGGGAAACACAAGAGAAAAAAAA
WI-18442	62 C	; <u> </u>		TTTATAGGTGGGAGAAGAGGA
				TTGATGTTAATACTGTCATTCTGGAGATCGGCTAAAAT[G/A]AAAGCATAGTTATTATTTAGCTTTGG
WI-18452	38 G	A	***	TATATTCTGCGACAGATTTAAACAAGTAAGACATATATCAACCCTCATATTTCCAACCA
				ATATAAAGCTGGAGACTGTGGAGGGTGAGAGGCAGTGGGGGACTAGCTGTTGAAAGAGAAGAATGTAGC
	_			AGTAGTAAAGATGAAAGACTGCAAGGATTCAAACA[A/C]GGTTATGGCAATAGAGGTGAAAAGAAA
WI-18489	102 A	 C	;	AGGCCATATAAA
			_	CTGGTGGGGAGGAAAAATTGTGGTATATTCATACAATGGAAAACTCTTCAGAAATAAGAAGGAA
	_			CAAACCACTGAATCACACAACATGGACAAATCTCAAATCATTATGCTGATGGAAAGAAA
EST5b	93 A		-	TAAGAATACACAGTACAT

				- CONTROL OF TAXABLE AND A STOCK A STO
			٠	CIGGIGGGGAGGAAACAAATIGIGGIATATICATACAATCATTATGCTGATGGAAAGAAACCATTCA
ESTS	93 A		•	TAAGAATACACAGTACAT
EST6	48 C		:	TTAGCTACTTTTCAGAATTGAAGGAGAAAATGCATTATGTGGACTGAACCGACTTTTCTAAAGGCTCT GAACAAAAGCTTTTGCATTTGCAACAAGAAGAAAAGCCAAAAAGCTTTTGCATTAGACAGAT
				GGACAGGACCTCTATTCCCGCCTGGTGCAGCGGCTGATGGACTGAGGCCCCAGGGATACTGGGCC
				CTCTTCTCAGGGGCGTCTCCAGGACCCAGAGCTGTTCCTGCTTTGAGTTTCCCTAGAGCTGTGCGGCCA
EST8	158 A		•••	GATAGCTGTTCCTGAGTTGCAAGCACGATGGAGATTTGGACACTGTGTGCTTTTGGTGGGGT
				TCCTCATTGTTGGGGGATGATGAAAATGATTTGGGAAAATTAAGTAACAACGACCTAGAAAAGT
WI-				GAGAACAATCTCATTTACCATCATGTATCCAGTAGTG(G/T)ATAATTCATTTTGATGGCTTCTATTTT
18740c	104 GT			TGGCCA
				TCCTCATTGTTGGGGGATGATGAGAAAGGATTTGGGAAAATTAAGTAACAACGACCTAGAAAGT
18740b	D 2 96		ì	TGGCCA
				CCAAAGICICCTGTTCGCTCATAAAGAAGTTTTTGGGATGGGA
				GCCAGGCCCTTGCCTTCATTTTTACAGAGGTAGCACAA(C/I)TGATTCCAACACAAAACCCCTTCCCAAAACCATTGTGTGTTTCCCTCTT
Wi- 18985a	105 CT	•		TGAAGCAATGACACTTTACTTTCACGGTGGTTTTTGTTTTTTTT
				GCCAGCAGCTGAAGTCTCTTTTCTTCCTCTCGGCTGGAAGAACATCAAGATACCTTTGCGTGGATCA
				AGCTTGTGTACTTGACCGTTTTTATATTACTTTTGTAAATATTCTT[G/A]TCCACATTCTACTTCAGCT
WI-18746	114 GA		•	TTGGATGTGGTTACCG
				CCGTGTTCACACACACACAAGCAAGCATAGTCGCCTGGTTACGGCCCAGGGGGAATATGCCAAGG GACCCCTTAATGGAAACACAGATCAGTAGTGCTATCTCATGACAACCACAAGAAACCGACGACAAA
WI-19112i	212 GA	•		TCTTTTGCGAGATTTTCTTCTAGTGGCTTAGAAACATGGCTTTTAAGAAACACGGTGATAICTTTGAACAGGCGATGCTTTGCAAACAGTTCCATACCAAACTGCTTTGCTCTAG
				TGGTGGCTGGCTAGCTAGTTTCTACAGAACATAATTTGCCTCTATAGAAGGCTATTCTTAGATCATGT
				CTCAATGGAAACACTCTTCTTAGCCTTACTTGAATCTTGCCTATAATAAAGTAGAGCAACACCAC
WI-19092	232 A C	!	_;_;	ATTGAAAGCTTCTGATCAACGGTCCTGAAATTTTCATCTTGAATGTCTTTGTATTAAAGCTAACAAAAAGATCATAATTTTC[A/C]ATTAGCCGTGTAACT
_				
				CCCATTTATTATGGCCAGTGATGTCTCAAAGAGTAGAGGAGCGTCTACTGGTCTTTCAACTCCTTCA
	(GICTTCTGACGGCGGACTTTACCGTGACAGCGGAAGTGGTATTGTACGTCCAGGCACGCAGCCACTG
WI-19057i 175 G A	175 GA		-	ICTICALGCAGGAACCACAGTGCCCAACAGCTCGAATICTCTTCATCACACA

			TGGGACTTCCAACTCAGAGGATGTGGGAATCCCAGCTCAAATGATACAGGATAAACTGGGATGGGCT
WI-20103	7 7 1	<u> </u>	TGGGCTTCCTGGGCTGGAAGCTGGGTCCTCCCCA(C/IITCATTCTGCTCAAAGCTTCTTGAAGGAGCTTGAAGGAGCTTGAAGGAGCTTGAAGAGCTTGAAGAGCTTGAAGAGCTTGAAGAGCTAGAAGCTTGAAGAGCTTGAAGAGCTTGAAGAGCTTGAAGAGCTTGAAGAGCTTGAAGAAGCTTGAAAGCTTGAAAGAAGCTTGAAAGAAGCTTGAAAAGCTTGAAAGAAGAAAAAAAA
+	7		GCCTTACCCATTTTGCACATATATACATATGCACCACCTTTGCAGTGGCAACATATATAT
			TAAACATACCACATTTATAAATCTTGTAAGGACAAGAAATGGA[G/A]TTGAATAAGTACCCCCAA
			CATATACAAGAAAGTTAGCATACTTACCCGGTTTTTCACTACATCAGAGGCAAAATAAGAAATCTTT
WI-20441	111 GA		TAAGAAAATCTCAAGACTGGCTCATGGCAAAATGAATATGCTAAATTTGGGGG
			TGGTTACAAAACCTAAGCCCATATACAAAATTAGGAACACATTTAGATGCCTCTTTTGAAAGAACGT
WI-			TTTAGTCTTTTTAAACTGAGTTTAAAAAAAAATAACAATGCAATTTTTA[A/G]ACACTGTTTTGAAA
19911b	116 A G		ACTTAAAAGTGCAGCAATA
			GTCCTCAAGGGGGAGAAACTGGTTCTTTTATGTACAAAGCACAGATGTAGGTACAGTATATAAACA
	-		GATACGTAGTACATCTGTAGTATTAAAATGGCATGGGAGGAGGCAGTTAGAAAAACATCTAAAAC
-iw			AGCTCCTTAGAAGGCCAATAATAAAGTTGGAA[A/G]AAAGGGAGTTTCCACGCAGCCAG1GG1GAGC
20613c	165 A G	1	752
			GTCCTCAAGGGGGAGAAAACTGGTTCTTTATGTACAAAGCACAGATGTAGGTACAGTATAAAACA GATACGTAGTACATCTGTAGTATTAAAATGGCATGGGAGGAGGCAGTTAGAAAAAAAA
-ix			AGCTCCTTAGAAGGCCAATAATAĮWOJAGTTGGAAAAAAGGGAGTTTCCACGCAGCCAGTGGTGAGC
20613b	156 A C	;	TGC
			CAGTAAAAGAGTGATTCAAGTTGCAGTAATACACTGACAGGTAAATA(A'G)TATAACATTAGAAAA
			GCAAAATICITTTAACTTAAGGAAAATGAAAGGCAGTTTTCCAAAATACTGAAATACAT
WI-19984	47 A G	•	TGGGGGAAGG
			GCCAGTTGGAATATGGCCTATACGAACCAAAGAGTGTGTATACAAAATGGAAGTGGTCATCAGGCAATA
		-	ATTGTTTCCTTGGAACTCTGCACCGACTGTCCATGCTCTGTGGGGACTTACACATTCAAGTTTGACAGI
			T/CJTGAAAAACCAACTGGAGCTGCTTTCCAAGAATGTTCTGTTGTCCTTCAAATAGGAATTCCATG
WI-20122	135 T C		TTATTTCTTGCCTTAAGCTCTTATATCTTTCAAATGACCTAAGCTGA
			GAGTGCCATACCTTCTCCCAGGCCTCTGCCCCAAGAGCAGGAGGTGCCTTGAJAAAGCTGGGAGGGT
-iw			GEGETCAGCAGGGCTGGTCACCTCCCGTAAGACCTCCTTCCCTTCCTCAGCAGGCCAAACATG
18846a	49 G A	:	GOCAGACTCCTT
			AGCAGTGGCCTTATTGCATCCCAAACCACGCCTCTTGACCAGGCTGCCTCCCTTGTGGCAGCAACGGC
			ACAGCTAATTCTACTCACAGTGCTTTTAAGTGAAAATGGTCGAGAAAGAGGCACCGGAJGGAAGGCG
			TOCTGGCGCCTGGCAGTCCGTGGGACGGGATGGTTCTGGCTGTTTGAGATTCTCAAAGGAGCGAGC
WI-18959	123 G A	;	GTCGTGGACACACACACACACTATTTTTTTTTTTTTTTT

WI-20146	31 T C	į	TGAGTCTTCTGTAATTCATTGAGCAGTTAGC[T/C]CATTTGAGATAAAGTCAAATGCCAAACACTAG CTCTGTATTAATCCCCATCATTACTGGTAAAGCCTCATTTGAATGTGTGAATTCAATACAGGC
			TAGGAATTGGTTTCACGCCTGAGGCAATTAGACACTTTGGAAGATGGCATAACCTGTCTCACCTGGAC
WI-18922	74 G A		TTAAGC G/AJTCTGGCTCTAATTCACAGTGCTCTTTTCTCCTCACTGTATCCAGGTTCCCTCCC
			TITCTGTGTTGTGGGGTCAACCGTACAATGGTGTGGGAATGACGATGATGTGA(A/G)TATTTAGAATG
WI-	53 A G		TACCATATITITIGE AAATTATTIATGTTTTTCTAAACAAATTTATCGTATAGGTTGATGAAACGTCA
	:		TTTCTGTGTGTGGGGTCAACCGTACAATGGTGTGGGAIA/GTTGACGATGTGAATATTTAGAATG
W.	-		TACCATATTTTTGTAAATTATTTATGTTTTTCTAAACAAATTTATCGTATAGGTTGATGAAACGTCA
18763a	38 A G	•	TGTGTTTTGCCAA
-iwi			CTCATTTCCATGCCATTGTGGAATTGAGCAGAGAACCTGCTCTCGGAGGATGCCTAGAAGATGTTGGG
18771b	75 GA	•	AACAGAA(G/A)AAATAAACTGAGTTTAAGGGGGACTTAAACTGCTGAATTCACCTGTGGA
⅓			CTCATTTCCATGCCATTGTGGAATTGAGCAGAGAACCTGCTCTCGGAGGATGCCTAGIA/GJAGATGTT
18771a	57 A G		GGGAACAGAAGAAATAAACTGAGTTTAAGGGGGACTTAAACTGCTGAATTCACCTGTGGA
			GGGAAAAATTTGAGACGCAATACCAATACTTAGGATTTTGGTCTTGGTGTTTGTATGAAATTCTGAG
	- 1		GCC[T/C]TGATTTAAATCTTTCATTGTATTGTGATTTCCTTTTAGGTATATTGCGCTAAGTGAAACTT
WI-18820	70 T C		GICA
			ACAAAGTCCTGTAGCCCCCTCACCTTTCCTGTTTTCACTTTTGCCAATGTA[C/T]ATCGGGTTTGGTTT
-iw			TCTTGTATTATTTAAACGGTTGTGGTTTCCTTTTTCCACGGAGGTTCAAGTAAAGCCGCTGCAGGAGA
18742b	51 C T		GTTTTACC
			GTGTGTCCAAAAATGGGGTCTGCTCCTACCTTGACCCTTCCCTTTCCTCTGCTTCTCTCTC
		244	TCATTCCCAACAACATCCTCTGCCA[C/T]ACACAACAAACGTAAGTTTCATTTGGGCAAAAATTGA
WI-18882	94 CT	•	8
			TATAAGCCCGAGTCACCAGGACGGCCTGTCTGGCCACAGACAG
			GGCCCCCGGCAGTGCAGTCCAGCGGGGGAGGCTGCCCGTTCCTGCCAGTTCCTCACTGCGGGGACC
<u>*</u>			AGCAAAGGCCTTCTCACTGGGTTGGTCAAAG[G/A]TAGTCACCTTGGCCTGGTGCATCCACAGAGGA
19970b	167 G A		TGTTGTTCAAACCAGAAATCTTTTAAACGACTGACCTTCCTT
			TATAAGCCCGAGTCACCAGGACGGCCTGTCTGGCCACAGACAG
			GECCCCGGCAGTGCAGTCCAGCGGGAGGAGGCTGCCCGTTCCTGCCAGTTCCTCAQT/CJGCGGGG
<u>×</u>			ACCAGCAAAGGCCTTCTCACTGGGTTGGTCAAAGGTAGTCACCTTGGCCTGGTGCATCCACAGAGGAT
19970a	126 T C	•	GTTGTTCAAACCAGAAATCTTTTAAACGACTGACCTTCCTT

			TATTGCTGCTTGTCACTGCCTGACATTCACGGCAGAGGCAAGGCTGCTGCAGCCTCCCCTGGCTGTGC ACATTCCCTCCTGCTCCCCAGAGACTGCCTCCGCCACAGATGATGATCTTCAGTGGGTTCTC
WI-			TTGGGCTCTAGGTCCTGGAGAATGTTGTGAGGGGTTTATTTTTTTT
	-		TATTGCTGCTTGTCCCTGACATTCACGGCAGAGGCAGAGGCTGCTGCAGAGCTCCCCTGGCTGTGC
Wi-	7. 0.		TEGGGCTCTAGGTCCTG[G/C]AGAATGTTGTGAGGGGTTTATTTTTTTTAATAGTGTTCATAAGAA
	3		TATTGCTGCTTGTCACTGCCTGACATTCACGGCAGAGGCAGGC
WI- 19067b	151 T C		TTGGGCTCTAGGTCC[T/C]GGAGAATGTTGTGAGGGGTTTATTTTTTTTATAGTGTTCATAAGAA ATACATAGTATTCTTCTTCTAGAGACGTGGGGGGAAATTATCTCATTATC
 			TATTGCTGCTTGTCACTGCCTGACATTCACGGCAGAGGCAAGGCTGCTGCAGCCTCCCAGCTGGCTG
-iw			TGCACATTCCCTCCTGCTCCCCAGAGACTGCCTCCGCCATCCCACAGATGATGGATCTTCAGTGGTTCATAAGAA
19067a	57 C G	••	ATACATAGTATTCTTCTCAAGACGTGGGGGGAAATTATCTCATTATC
			TTAATCCCAGCCCTACCCTTGTTAGTTATTTTAGGAGACAGTCTCAAGCACTAAAAAGGGCTAAAAGTGGCTAATTC AATTTATGGGGTATAGTGGCCAAATAGCACATCCTCCAACGTTAAAAGACAGTGGATCATGAAAAGACTCGTTCATGGGCTAAAAAAAGACTCGTTCATGGGC
WI-19106	247 T C	1	GTATTGGGCCATAGCTATAGTTAGTTAGAACCTCCTATTTTAATT/CJTGG
			CAAGGCAAAAATATCAGGAGCTTTTTACACACCTACTAAAAAAGTTATTATGTAGCTGAAACAAA AATGCCAGAAGGATAATATTGATTCCTCACATCTTTAACTTAGTATTTACCTAGCATTTCAAAACCC
WI-18944	147 A G	1	TTAAAACAATGGCCTGGTTCAATTTCTTTCTTTCCTTAATAAATTTAAGTTTT
			CCCATCCCTGTGAAGGAGTAGGCCACTCTTTAAGTGAAGGATTGGATGATTGTTCATAATACATAAA
	•		GTTCTCTGTAATTACAACTAAATTATTATGCCCTCTTCTCACAGGCAAAAGGAACTGGGGTTTGGT
WI-18952	232 G A	:	TTTTGTTGCTTTTTAGATTTATTGTCCCATGTGGGATGAGTTTTAAATGCACACACA
			CACACCTCATGCTAGCCTCACGAAACTGGAATAAGCCTTCGAAAAGAAATTGTCCTTGAAGCTTGTA
			TCTGATATCAGCACTGGATTGTAGAACTTGTTGCTGATTTTGACCTTGTATTCAAGTTAACTGTTCCC
<u>*</u>			CTTGGTATTTGTTTAATACCCTGTACATATCTTTGAGTTCAA(C/I)CTTTAGTACGTGTGGCTTGAGTCA
18932d	177 C T		CTTCGTGGCTGAGGTAAGAACGTGCTTGTGGAAGACAAGTCTGTGGCTTG

	-			TTGTCAGTGTTGCCTCTCGCAATGCCTCAGTAGCATCTCAGTGGTGTGTGAAGTTTGGAAGATAGAT
-				GATAAGGGAATAATAGGCCACAGAAGGTGAACTTTGTGCTTCAAGGACATTGGTGAGAGTCCAACAG
WI-19042	193 AC		1	ACACAATITATACTGCGACAGAACTTCAGCATTGTAATTATGTAAATAACTCTAACCA[A/C]GGCTGTGTTTAGATTGTATTAACTATCTTTGGACTTCTGAAGAGACCACTCAAT
 				ATTGGCCCTGTACAGTTTGCTTATTATAAATTCATTAAAAACACTACAGGTGTTGAATGGTTAAAAA TGTAGGCCTCCAGTTCATTTTCAGTTATTTTCTGAGTGTGCAGACAGCTATTTCGCACTGTATTAAAT
40004	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			GTAACTTATTTAATGAAATCAGAAGCAGTAGACAGATGTTGGTGCAATACAAATATTGTGATGCATT TATCTTAAAAATAAAATGTCAATTTATCACTGCGCATGTTTGACT
				GCTTCAATTGGCGATTGATTCAGTGCCCACAATGTAAAACAGGGTTGGTAGTTGTTACTCATTTGAAT
WI-18851	90 T A	•••		ATACCTTTTCCTTATTGTT/AJGTAATATAGGATCCTGGAAATGAGACCTGGTGGAA
-IM				TCAACTGCAGTGTTGCTTCCCTCCCCTATAGGGCTGGAATCTGTCTAGGAGCCCTCTCTCGGGGGGCCC ACAGAGGCTTCIGGGGGTAGCCATTGTGCAGTCATGGCCCGGGGGAAACTTGCCAACCTTCGTGTCAG
121b	76TC	•		GIGCIGIG
				TCAACTGCAGTGTTGCTTCCCTCCCCCTATAGGGCTGGAATCTGTCTAGGAGCCCTCTCTCGGAGGCC
-ix				ACTIAGAGGCTGGGGGTAGCCATTGTGCAGTCATGGCCCGGGGGAAACTTGCCAACCTTCGTGTCAG
18821a	C T C E	:		Gracialar
				ACTCCTCTGCTGCTGTCCAT[C/G]ACTGTCCTTTTGAACCAGGAAAAGTCACAGAGTTTAAAGAGAAA GCAAATTAAAAAATCGGAAAAAAAAAA
WI- 19021a	20 C	;	:	CTACCTTACCCACACTTCCCTCTGATTTGCGTGAGGACGTGGCATCCTACTTACGTACG
				TGGAAATTCCCTTCATCTGGAACCATCAGAAACACCCTCACACTGGGAACTTGCAAAAAGGGGTCAGTA
WI-18908	70 GC	ì	•	TGG[G/C]TTAGGAAAACATTCCATCCTTGAGTCAAAAATCTCAATTCTTCCTATCTTGCAAAAATCTCAATTCTTTGCAAAAAAATCTTAATGAAAAAAAA
				CACGGTTCTCTGCATCGTTACCAGAGCGCCTTCTGGTCCTAGCCACGCCCTGTATGACCGCGCAAATA
(TCCCCAAAGCTTTTGGGTCCTCAAGTCATGCCCGAATTTAGATGCTGGTCA1111C1GGAGAGGGGTC
Wi- 19037b	155 A G	1	1	CCCICCCCITACGAACACA(A/G)AAACCCAACATGACTAGAACACGAGAGAGAGAGAGAGAGA
 				CACGGTTCTCTGCATCGTTACCAGAGCGCCTTCTGGTCCTAGCCACG[C/A]CCTGTATGACCGCGCAA
				ATATCCCCAAAGCTTTTGGGTCCTCAAGTCATGCCCGAATTTAGATGCTGGTCATTTTCTGGAGAGGG
WI-	(GTCCCCTCCCCTTACGAACACAAAAACCCAGCCCACATGACTAGCACGCTGAGCTCTGCAGGGACCA
1903/a	4/2/2	A	•	מופרראמפרארומפמפטומפאמומומאומיומאומאומיומאומאומאומאומאומאומאומאומאומיומא
				TTGAGGAGGTGGGTGAACTGCTCCTTGGCAGGGATTTGTGACACTGCATTGCTGGGCTGTGTTCCT
				C)CGGGCTCTTCTGGACCTTGCACCGTGGATACCAGGCCATGTGCCATGGATTTGGGATTTGGGACCTTGGGAGGGG
WI-19064	66 T C			TGGG I GAAAI AAAGGC

				AGENTIFIER TTATETO A TOTAL A CONTRACTOR TO T
				OCCTCCTGGAAGGCTCTGCAGAGTGACTGGGCTGGGGAAGCAGAAGITGCTTGCTGGCGATGGAGCC
Wi- 18972a	112 A G	:	i	TCATTGCAAGTTGTTCTTGAACACCTGAGGCCTTCCTGTGGCCCACGGCAGGCA
				GTTTGCAAACCAACATGTGCTCTTTTCAGTCATTCACTGTTTTAATATGACATGGTAGAGAAAAAAAA
WI- 19016b	184 CA	ŀ	:	CTGAAAACCTTAGATACATAGCCGACTGTATACAGAGGTTCATCTCAA(C/A)CTCAACACTATTGAC
				GTTTGCAAACCAACATGTGCTCTTTTCAGTCATTCACTGTTTTAATATGACATGGTAGAGAAGATAAG
-iw		-		GTTTATGGCAGGTAATTTTTGTAATGTGTATTAAACGAAGTTCAAAGATTAGAAATACATCTGTGTGTCCTCAAAACCTTCAACGTCAATGCTATTGAC
19016a	161 CT		•	TTTGGGGCTGGATAGTTCTCTGTTGTGGGGGTTTGTCTTGTGCACTGTAG
				GGTTTTGGGGGCATTTATTTCJT/CJGATAGAGACTGGCACAAGCTTTGGGCTAAGGACACCCGCCCCC
WI-20096	21 T C			ACCCTCATCTAGAAACAATCTCTCGCCAGACTTG
				TGGGGCAATTTTAACAAACCAGGCAAAATATCACATATACCTGAATATAAGGTAACTCCAAGCCATG
•				AGTATAAGATTAAGGCAGTTACTTTATTTGAACAAGGAAGTGGCATAAGCAACTCAGTGTGTGCCC
Wi- 19591b	156 C		ì	CTTAGGGTGGGGAGCTCTTCCQ(QA)CTACCACTCCCCACCCCAGGCATCATTTGGAGGAGGATTGCACCTTCTTACACGG
				TGGGGCAATTTTAACAAACCAGGCAAATATCACATATACCTGAA[T/A]ATAAGGTAACTCCAAGC
		_		CATGAGTATAAGATTAAGGCAGTTACTTTATTTTGAACAAGGAAGTGGCATAAGCAACTCAGTGTGT
WI-	<u> </u>			GOCCCTTAGGGTGGGGAGCTCTTCCCCCTACCACTCCCCAAGGCATCATOTTCTAGGAGGCATCTTAGGACTCTAGGATTGCACCTTCTTAGAGGG
1909 I a	-			TOTAL CONTROLL CON
				TTAPETAGEAACAAAAAAGGCCCAAAAGAACATACAAGGCCAGGTCTCTAGAGGCTCCAGAACAGAACAAAAAAAA
				CTGGACCCTTTAACTACAAAGGAATCTTGGATGAATTTTTTTAGCGGGGCTTCAGGAGCAGGTAGC
WI-20310	125 G	A	•	AGAGOCAAAGTGCACACTCAGGCCATCTTCCTCCCAATGTCCTCCCCGGGGG
				CTCTCCCCTAAGGAGCCTTGGCCTTGCAGCCCCATTCAGCAGGGATGGAAGTCACAAGACAATGAGT
				GGAGCCTCATGCCCTCOCATGAGGAAGCCCTTAGTATTGCTGACATCTGCCCTTTATCCTGTCTCCT
				COCCAGTGCTGTCACACTTGGGCAAAGCAGAGTGGTGGCAGACCCAGCCTTGAGAGCTCTTGTAGACC
WI-20860	224 G	A	:	GGAAGGAAGGGCGGTCATTJG/AJGGTGATGGCTTCTGGCTCTCTGGCTT
				GACGTGGACAAAGGAGGTTTAAATGAATACTTTGTTTTG[T/C]CATGTTCAAAAAAAAAGAGTATTAAT
				ATTTTGTGACTGCATCTGTGAATGAAGACACTCAAAAAGCCATGTTTCCAACTTAGGTTAATAATAA
<u>-</u> X				GECTATTTGTCCACCCACTCTCGGGCATTGCTGCAATATTCCTGGGCCTCAAGTGGGGAGGCCACGTG
19359a	39 T C	 O	•	GGAACAAGGCCTCAGAAACAAAGACATGCAGCCTCCCTGAGCCAGTTCCT

WI-	•			TGGCCTCAATGACTGGTACATTGGAGAAGCTGTGCAGCAGCATCCTTTTCTGTGGTGGGCAGGGCAGGGCAGGGCAGGCA
19/000	200	::		TGGCCTCAATGACTGGTACATTGGAGAAGCTG/ATGCAGCAGCATCCTTTCTGTGGTGGGCAGGGC
				AGGAGATGAACCATAGGAGCCAAAAGTCAGACAAAAGAGAAGGAGGCACACCAAGCCTGAAACCTC
-iw				CGGACAACAGCAGAGTTACCAGCTGAGGGATGTCCCTGGAGGTTTCTGACCCATGAGAGGCCCCTC
19766a	31 G	A	:	ACCCTCCTTCACCCTCCTACCACCAGCTCTCCGGCAGTCATGGACTTAT
				CTTCCTCTGTTTGGCTTTGCATTTGGAAAAACCACTTGGAAGAAGGGACTTTCCTGCAA
				AACCTTAAAGACTGGTTAAATTACAGGGCCTAGGAAGTCAGTGGAGCCCCTTGACTGA[C/G]AAAGC
<u>*</u>				TTAGAAAGGAACTGAAATTGCTTCTTTGAATATGGATTTTAGGGCGGGGCGTGGGGTGGGGTCACGCCT
20512d	126 C	G		TATTAATCCCAGGCACGTTGGGGAGGGCCAACGCGGGGTGGGATCACCTGA
				CTTCCTCTGTTTGGCTTTGCATTTGTGCGATTTGGAAAACCACTTGGAAGAAGGGACTĮT/GJTCCTG
				CAAAACCTTAAAGACTGGTTAAATTACAGGGCCTAGGAAGTCAGTGGAGCCCCTTGACTGAC
-iw				TTAGAAAGGAACTGAAATTGCTTCTTTGAATATGGATTTTAGGGCGGGGGCGTGGGTGG
20512c	59T	 G	•	TATTAATCCCAGGCACGTTGGGGAGGGCCCAACGCGGGGTGGGATCACCTGA
				GGGCTTAAAATTCCCCTCTGTTTGGGACTGGTCTCTCCAGTTTACAGCAAAGGATCGCACCCTTTCC
				ATAACCCCTTCTACATTGGAAAGAGCACACCTTGTATACAGAATGGCTCCGTGAAGTCTTTTAAACG
				GACAAAGGTAAATCACAGCTAACAAAACGTGATGTTGGCTCACACGTAACCAAACACCTCTTTTCA
WI-19599	230 C	G	1	GAACAGAGAGCGTTAAAAGGTAAAGGGCAJC/GJTTCCAAGAGTAACACTGCTA
				TGTTTGAAATAAAAATTTCCATGGTCTTAATTGAACTGTATGTTACTTTCTTT
				TTCATTAAAATAAT[T/C]TCTAAACCACTCTATGTGTTCAACCTTCTGTTTAACACTAAGATATGGGT
				TTTTGGAAAGGCCACAAGTCACCAGCTCCATGAAGTGGGCGAATTGGTCCTTGTTTTGGAAAGCTCTC
WI-20679	82 T	c	;	CAGGGTGTTTCTCCAGAAA
				CCAGAAATAAAGCCTGAATATTCTCTTTC[T/C]TTAAAAATATAATTTTTCCTTCTTTGCTCTTCCAA
×				GTAAATCTTAAAATGAACCTGTTCTAGTCTATTTTAATCTAGGCAATTATAACACTACCTAGGCGGG
19909a	29 T	:	i	TITITICCITTATACCITGITCIGIACTGIGGAATCAACTAA
				TTGAGAGGCTGAGAGAGGCTGTTGAGACATTGTAATAAGTGCTTAGGGGCCATGAGACATTAGGAAG
				GCCACATTATGAGTAATGAAATGTGGAGGCTGATGAGAAGCTACTGCTCCCATTTGTTTAGCAGGA
				GGCAGGAAAAGTGATCTGGGGTCTCTGGCAAAAAGCGTGTGGTAAATATTTGGGTGACGTCATGC
WI-20341 221 GC	221 G	c	•	ATCCCCCATGCATTGGTTTTTG/C/ATGTCTCCAGTGAGCTGTTGGGCAAGTCT

		··	TTCTGGTACATGGTAAGTGCTCAGTATTACTGAGTGAATGAGCAAAGACCTGAAATACTG[T/C]GGA AACAGTAAAAAGCAAATTACCACACAATTAGGAGGAATTATTTCAGACATAGGATATTTAAAAACAT
WI-20113	60 T C		CACTCAAATACTGGAGCATGATTCAGCAATAAATTCTATTCCATAAACCAGGTAGATAAATGTCACA GCTTTAAAATATAGTTAAGTACAGTTGATCCTCGTTATTCATGGATTCCGTATT
			TGATGGCAAAGTACAAAGGCTCTGAAAGAACAGAGTAAACAAGAGCAGCGCAGTGCAGCGTGTGGC CACTTCCCACCAGGCAGAACACTTGACTTCATTAAGGCAAAQGCJCTTTACTCTGTTACTTTTCCTC
WI-20895	107 G C		CCACATAGTTTAACCCAAATAGAAAGGCATTCTATTCTCACACTACTGCTCTTAAGGTCCTAGGAAATAGGAAACAGATGCA
	H		CCTGCAATCACAAAAGTGGAACTAGTTGATATTTTGAAATCATACTTGATTTAACCACCTTCAGAAA
			CTGGATTITAATATTICTGGCCTAATAACCAAATGTAATCAATAAAATTTGGTCAATATCTCCACCTC
			ATTICTECTAACATGTTTTGCAAGATTCCCTAAGTAATGAACGACTGAGACTAGTCCGGCAAA
WI- 19415c	161 A G	;	GTCATGAGACCCTTAGCTGATCTCAT[A/G]AAGTCCACCTCATGAGGAGATGATTCAACATCTCAACGTAAAAGTGTGGACATACAAAGGCTTACAAGGTTTTACACTTCCTG
			GCTGCTCACTGGTAGCCAGCCAGCTGCAGGATGGTGGGGTAGCAAGTACGATGGGCCATGCACTTCTG
WI- 19348c	103 CT	1	GCGGTCGATGAAGAGACTGTTGGTCATGGCGGTGAC/TJGTCCTTCTCCAGGCTCATATGGATGTCCT
		1	GCTGCTCACTGGTAGCCAGCCAGCTGCAGGATGGTGGGGTAGCAAGTACGATGGGCCATGCACTTCTG
WI- 19348b	98 G A	į	GCGGTCGATGAAGAGACTGTTGGTCATGGC[G/A]GTGACGTCCTTCTCCAGGCTCATATGGATGTCCT CGAGGTTGCACAGGGAACTGCTTGTAGAAGCTTCTCC
			ATTAGTTCGTGTTGGGCCACATTCAAAGCCATCCACAAGCTTCTTGTAGGCCATTGTAACACAATG
			TTAAAAGGTACAGTAAAAATACAGTATTATJA/JATCTTATTGTGTAGCACGGCTGTGAGGGCTCATT GTTGAATGAAGCATCCTTAGGCAGCACGTGACTGCATGCA
WI-19635	98 A T	•	—
			TCCAATTTTCAGAAACATGTTCCATGTTTATTGTGATAAGCACTAG[A/G]TATTATAGTCTCATGTTT
			TTAATTTATGAATAACGTCTGATTCATTTGATTTTGTATTTACAGAGATGTCAGGGCTATCTCATTC
WI- 19641a	46 A G	<u>:</u>	AGTTATTAATAAATGGATCAGAGTAGTAAGTCAAGAATAAGTGCALAATGTGGTTTAAATTTTAAATACTCCACCCTTG
Wi- 19642b	52 C A		ATATAGAGTACCATCCATGGTTTCAAGCATGGCCTGGACACATTATCCCCCT[C/A]GGGTAAACCAG
			TOTOCCATOACATTGTGATGAAGAACATGATGATCACTAGTAAGGTAACTTTGTGTCATTGCTT
			TACTCTCAGTGAGGTGCTAGTGGATTTACCTACCCTGCTTTTGCATCACCACTGTAATAGT
Wi-	1		GAAAAGGCAAATGATGTCTCAGTATCACTGTGAAAACATTTTTCCC/TJCTTGGACCAGCTGAAAGAA
19673b	1801CITI		ICT GAGGAGCC GAAGGC I CAAGG CCACAC CAAAAAACACAGCCC

		,	TCTGCCATGATCACATTGTGATGAGAACATGATG[G/A]TCACTAGTAGGTAACTTTCTGTGTGTTGTIG CCTTACTCTCAGTGAGGTGCTAGTGGATTTACCTACCCTGCTTTTGCATCACCACTGTAAATCTAAT
Wi-		•	AGTGAAAAGGCAAATGATGTCTCAGTATCACTGTGAAAACATTTTTCCCTTGGACCAGCTGAAAGAA TCTTGAGGAGCCTGAAGGCTTCAAGGTCCACACGTCAAAAAAAA
35			TTTATTTGGGAAACAAAGGATTGTAATTTGGGTAA(A/G CTGAGTCACGGTGGCCCTGAGTAGTGTC CTAGAAAGCAAACACGAGAGTTTTGGTTTTTCTCTT
			TCCTCCTCCCCAACTAGATGGTATTGATCACTCTGCCCACAAATGGTACCCCCTTCAGCAAGAACTGCAAGACTGCAAGCCTTCTTGGATTTGCCTTCATGAGAAAATGGTGGCTTGGGATGGAGGGGGTGACTTCCTTGCTGTGTGGTGAACTGCAAGAGAAGAAGAAGGAAATGTATTCCATAGAGGCCTTTAAAGAAGACCGGT/CJTGG
WI-19307 196 T	1	•	AAATGGGCCATGGTCTAATTTGGTGTTGAAATAAACTAACCTCTTTGGCTG
			CTITICCTICATCCCTCTTICCACCACACCATCCCGGAACAAGTGCTCCAGGATTCCCTGCCCACTGGC CATTITICGAGTGTGTGTGTATTGGGTAGCAATGTGGAAAACCACCAGGGCCTTTGTGGAGAAAATGG AAGAGATTGAAGAGAGAGAGAGGGCTTTTGAGGGCCTTTGCCACTTGCTCATAGGGGAGCTCG
WI-19269 85 A		1	ATCTCCTCATCATCTGGACAGGTGGAAGCGAATTCTTCCCGGGGCGTAGGCA
			CAATGGACTGAATGAGTGCGTGCTGGGTGGGGTGGGCACACACA
WI-19946 122			ACCCAGACGCACTCACGAGCCAGGTCCTGGTTTCAAAACTGCATTTAACCTGCGCCAGAGAGTTCAC CGTAGGCATCTTTAATAAACTAACTCCAGCAAAATGTGGGTACGGTTACTAA
			CACAGCATGGTGTAAATAGCATCAGATTGAATGAAAAGTTTGTTAAATGCAACCATAAATTATA ATAAATATACATCAAGTAACTTTACAGCACACATTTTTAGGGCCAAGGTTTGGATCTGTCTG
WI-19956 141 (GA	•	GTGATGGCCAACAGAAGCTTCTGAACTCCTCGGGGAGGTAGCTGACAAG
WI-19076 40	A	:	TTGGTTGGATACTTGCTGGAAAAAAAAGCAGTTTTAAT[GA]GTATTCAAAATACCTTTTAAAAA GTATTCTAGCACAAGATTTTCTGTAAACTAGATTATGTTGTAAACTTTTTTCTAAATCTTGTAGGAG TGTCGGTTGTTAAGAACTAGAGCTTATTCCTATTCCAAATCTATCT
	11		CCACACACTCTGGTTTTATAAAGCTA[T/C]AGGACAGAGCAGAGATGGAACTGAAAAAACAGGGTAGAAAAATAAAT
WI-20218 26	т о		ATGGATGCAGGAGAAAAA
			CAACCTITITGACAAGGGGACGTGAATTICTGATGAAAGTTATCTTACCAAGTTTAAAATTCATAATTG GGAATTCCTCTTTTAATATCTCCAGGCTTGATTGGGGAGGGGCTGGGCTTACCCCTTTCTTT
WI-	<u>ر</u> ۲	-	ICCAGIO AI IGCCAGA MAJCCAGA GAACACAGAGAACACCCAGCO CONCONCONCONCONCONCONCONCONCONCONCONCONC
-	:::5		

	F			
				CTGGGAGTGCTGACCTAAGTGACATTTTTTTTTATGCCAAATACAGTAATCTCCAAGCTTTTTATGCAAAGCTTATGCAAGGATGACACTCCAAAGCTA
	(CAACAGTGCCACAGGTGAGAGGTTTCCCTATACTTACTACTACTACAATTTAGC[G/A]ATCCTTC
20361a 19	192 G/	A	•	AAAI GGGAAAAI ICCI AACI ACACAAAAAI GGGI CO I ACAGI AGGCCCG
				GAGCCAAACCCAAAACAAAAAAAAAAAAAAAAAAAAAAA
				TCAGAATT[A/G]TCATAAAACATCATCTTTTACAACATGGAGAAGCGAGGTAGGCCATAA11G11CA
				AATTTCATCTTTCTCAAATTTTAAAATTGTTTTAATCCCAAAGGTGCCTATTGAATTCTTCAAAAATA
WI-20572 7	75 A (G	1 1	AACTGCCTATCAGGTATCATACCTGCAAATGCTTCTAATATCTCTTGATTAT
				CATGACAAAAGACAAAGATCAAGGAGTAACATAAAATTATAAGTTGAATAAATA
				TTCACTTTTTAAGAAAATGTGAGATCCTTTGTTGGTTTTTTTATTTCCTTAAGTACAAAATGCTAAAC(
WI-20588 13	133 G/	Α	•••	GAJGGAGCCGAGCTCTTCCGCATTCAGG
				TGACCTCATACTGGGTTCTGGTTAGAACACAGCCACTAGAACAAACTCCAGTCTTTTCAGTCTGTTG
				CTGTACTTCAG[A/G]TTTAAAATCTGGGAATGAGCATGCAGCAATGCTCCACCAGATGAGGAAGAAA
				AGCTGTTAAAAGGAACTCAGGATGTTGTTAGGAAGGGGGAGTGGATGCCAGGCCTTCACCAGACTAT
WI-20593 7	79 A (G		CCAGAAGCCATTCCATGGGGTATTTGGTCTGCATACTGTGAGACACTGAGCT
				TTCTTTGCCAAGCCTGTTCTTCAAGTTATTCAGAACTGGGTGTATACCTTGTCCTCA[T/C]ATGTATCT
				TGTCCCTGCTGTCTTTTAGGTTAGCAAGGTGTATGAATACTTTTAAGTTTTGTTTG
_				GGTATCAGTGAAATACTGATCTATTCTCTGGCTAGGGTCAATTTACAAAATTGCCATGGAACTGAGC
WI-19765	57 T		:	AAAAGGCCCACGTGGGATAAATCACTCACCATCGACGCCACCAGTATT
				TGACAAGGGAGAGAAGGGAAATTCTACTCATTGCAAGGAAATCCTCACTTAAGCTTCAGTGAGCCAC
				AAGCACTTAAAACCCATGAACCTTCAGCTGATCGTCCTTAGCCAGTCCAATCTCTACGAGGAACTGG
				CATATGTTCTTGCGTTGGTCACCCTGTAGCTGAATTACTTCTCCATATTCCGGATGCTCAATTACAGT
WI-19066i 23	239 A G	::	:	ACCATTGCAGGCAAACTTTTCTTAAACGCCTTCACT[A/G]GTTTCTTTTA
				TGACAAGGGAGAGAAGGGAAATTCTACTCATTGCAAGGAAATCCTCACTTAAGCTTCAGTGAGCCAC
				AAGCACTTAAAAACCCATGAACCTTCAGCTGATCGTCCTTAGCCAGTCCAATCTCTACGAGGAACTGG
-iw				CATATGTTCTTGCGTTGGTCACCCTGTAGCTGAATTACTTCTCCATATTC[C/J]GGATGCTCAATTAC
19066g 18	184 C	L	:	AGTACCATTGCAGGCAAACTTTTTCTTAAACGCCTTCACTAGTTTCTTTTA
				TGACAAGGGAGAGAAATTCTACTCATTGCAAGGAAATCCTCACTTAAGCTTCAGTGAGCCAC
				AAGCACTTAAAAACCCATGAACCTTCAGCTGATCGTCCTTAGCCAGTCCAATCTCTACGAGGAACTGG
				CATATGITCITGCG[T/C]TGGTCACCCTGTAGCTGAATTACTTCTCCATATTCCGGATGCTCAATTAC
WI-19066f 148 T C	48 T		•	AGTACCATTGCAGGCAAACTTTTTCTTAAACGCCTTCACTAGTTTCTTTTA

			TGACAAGGGAAGAGGGAAATTCTACTCATTGCAAGGAAATCCTCACTTAAGCTTCAGTGAGCAC
- N			AAGCACTTAAAAACCCATGAACCTTCAGCTGATCGTCCTTAGCCAGTCCAATCTTACGAGGAACTGG
9990	147 G C	•••	AGTACCATTGCAGGCAAACTTTTTCTTAAACGCCTTCACTAGTTTCTTTTA
			TGACAAGGGAGAGGGAAATTCTACTCATTGCAAGGAAATCCTCACTTAAGCTTCAGTGAGCCAC
-iw	<u> </u>		TGGCATATGTTCTTGCGTTGGTCACCCTGTAGCTGAATTACTTCTCCCATATTCCGGATGCTCAATTAC
T	3		TGACAAGGGAGAGAAATTCTACTCATTGCAAGGAAATCCTCACTTAAGCTTCAGTGAGCCAC
	-		AAGCACTTAAAACCCATGAA(C/T)CTTCAGCTGATCGTCCTTAGCCAGTCCAATCTCTACGAGGAAC
WI-	1		TGGCATATGTTCTTGCGTTGGTCACCCTGTAGCTGAATTACTTCTCCCATATTCCGGATGCTCAATTAC
190000			
			TGACAAGGGAGAGAAAGGGAAATTCTACTCATTGCAAGGAAATCCTCACTTAAGCTTCAGTGCACTTACGAAGGAAG
<u>.</u>			AAGCATATGTTCTTGCGTTGGTCACCCTGTAGCTGAATTACTTCTCCATATTCCGGATGCTCAATTAC
19066a	72 CT	1	AGTACCATTGCAGGCAAACTTTTTCTTAAACGCCTTCACTAGTTTCTTTTTA
			TTTACAGCGAGTTTTTCCCGTCTCAATAAGTATGAATCTAAATAGATTAGGGTGAAAAGAAAATGTG
			TGTCTAAATAAAATCTCCCTTTTTGAATGTATTTTGT[G/C]TTAATAAAGGGAAGCATTAATATA
. Ossoc IWI	- C	1	CAGACATATTTACAAGGTTCTGAACATGAGTGATTCCATTACTGTTTTCTGTACAAGATAGAACAAA AAGCTATCCACCGCCCCAAAAAATACTGTTTAACAACAACATTTTTAAGA
	7		
			CTGCTGCCAGCTTCTCTTTGGCCCTGCTCCCAGATGGCGGTCTCCTGGCAGCTCCCCTGGTCTTTCGCTCAGTCTTCCCAGCCTCGCTCG
WI-18768	120 CT		TTGAAAGCTCTGAA
			TTCCCCAGGGTTCTGTATTGCAGCTAAGCTCAAATGTĮA/GJTATTTAACTTCTAGTTGCTCTTGCTTTG
			GTCTTCTTCCAATGATGCTTACTACAGAAAGCAAATCAGACACAATTAGAGAAGCCTTTTCCATAAA
			GTGTAATTITAATGGCTGCAAAACGGCAACCTGTAACTGCCCTTTTAAATGGCATGACAAGGTGTGC
WI-19087	37 A G	•	AGTGGCCCCATCCAGCATGTGTGTGTCTTGCATCTACCTGCTGC
			GAAAGCCAGAGATTAGCCCCGCATTCCGCATCTGTCAACCAGGACAGAAAA/IJGCATGGACAAGGGA
			TGAGCTTTACAAAGATGATGCACTTTGGAGATCAGAAAATTCATATTTAAGCAAAGTGATACAAACA
WI-18790	49 A T	* *	CAGTGATTTGGGAATGCCT
			AGGAGGCTGTTCCAGGAGTCCTGCCAGCAGCCTC[G/A]GTGGCCAAGCCCAGACACTCACCCATT
			COCCAGTGGCCCCGTGGTCCTGGTCCTAGGCTGGACACAGGATTCAGAAAGACACCAGGCTGCACA
!			GAAAGAGCCAGATGGACCTGAGTGTCGGTCACAGCCCCCTACACTCAAGGCTGAGAGGCTCAGGAA
WI-18987	35 G A	<u>:</u>	AGTCA

				TGGATGAAAACCACAGGGATTCCGGA[C/T]GCCAGACCCCA1111A1AC111CAC1111C1C1ACAGG
				TTGTTTTGTTGTTGTTGGTTTTTATTTTTTTTTGGCCA!ACCACAGAGC!AGA!!GCCCAGGIO!
WI-18919	26 CT		•	GGGCTGAATAAA
WI-				CTTTCTGGTCAAGGCTTTGGACATCTCTTCAGTCATCAGACAGA
18741c	64 G A		•••	CTGGAGTTCAAGCTTGAATTATATGCAAGTTAATTTTACAAGCCTGGATGAGGCTACTGA
-IM				CTTTCTGGTCAAGGCTTTGGACATCTCTTCAGTCATCAGACJACAGAGTATCTCTGCTCTAGACCTCG
18741b	38 GC-		1	CTGGAGTTCAAGCTTGAATTATATGCAAGTTAATTTTACAAGCCTGGATGAGGCTACTGA
-iw				CTTTCTGGTCAAGGCTTTGGACA[T/G]CTCTTCAGTCATCAGACAGAGTATCTCTGCTCTAGACCTCG
18741a	23 T G			CTGGAGTTCAAGCTTGAATTATATGCAAGTTAATTTTACAAGCCTGGATGAGGCTACTGA
		-		TCAGAAGCAGACATGCCATCTTGCTTGCTTGTTGGTTGTGTACCTTTCACGAGACCTGAATT
				TTAGAATTGCCCAGTGCTGCCAGAGTGAGTGAGTGTAATTCTCCTTTCAGGTAAAGATAGGCTATCTC
ż.				AACACTGCTGAGTGATTCATAAACATATCAACCA(G/AJTAGCATTAACCCATTTTATTTCCTGTCCTT
19179a	170 GA-	•		AGTGTCTGAAGATGCTCACCAGTTTTCTGTGTACAGTAAGGCAGCATGCT
		-		CCAAGTTGCATCCATGTTTGATTTTCTGATGAGACTAGAGTGACAGTI/AJGTTTCAGAACCCAAATGT
				CCTCAGGTAGTTTGGAGCATCTCTATGAGATGGGATTATGCAGATGGCCTATGGAAAATGCAGCTGC
				ATAATTAACACATTATCAAAGTCCTCTTACAATTTATTTTCCGCAGCATGTCAGCTAAGTAGACCCA
WI-19212	46 T A-	,		ATGGGGAGAGAAAATGCCTGCTTTCTTCCCTCTTTTCTGCACTGCCATAT
				CTGTTGAAGGCTTCCTCAGGCAAACTCCAGCTTAAAGCCCTAGACAGGTAAAAGCACACACTTGGATG
				GCAGCATGGGTTTCTTCCCATTTTATGGGCATGAAATATGTGGTTTAGAATAAGGAACAAGCATTATT
				CCTTTGCCAACAGCCTCACTCTAAGAGGCTTTTTGCTGAGTCAAGCAAACACTTGCCTGCTCTGCCC
WI-19183	210 GC-	:		CTTGGAGGCJTGCATTTGACCTGCTCTCACTGGTAAGGTGACTTGGTGGC
				TTGAAATCCCAGTCTCCTGGCCCCAGGCAGGGTCTGTCACCATAGAATGTCTTCCTCTACTGGGGTC
				GTTCTGGCTTTTTGTTAGAAACTTGGTCTGAGATGTTCTTCCCCTGTCCATTACCATTCGATGTTCTTT
-i×				TGTTCAGAGCAATGTTTCTTGTATTCTGAAACTGGAAACTGAACCAGTTTGCCTTTCTCCTAGTCACC
20014b	214 T C-	•	•••	AAGCATACT[T/C]TCCTGGCTCCCCAAGTACTTAAATGTTCTCATCTGT
				GTCTCCCCAGAGTGCTTCTGCACCCCAGCCCCTGTCCTGCCTG
				TCTCTGCATCCCTTCCCAGGGGGGGGTGCCCTTAGTTTGGACATGCTGGGTAGCAGGACTCCAGGGCGTG
				CACGGTGAGCAGATGAGGCCCCAAGCTCATCACACCAGGGGGGCCATCCTTCTCAATACAGC(T/C)G
WI-19041	198 T.C.	•		CCCTTGCAGTCCCTATTTCAAAATAAAATTAGTGTGTCCTTGCCTGTCTGT
				CAGTTACCCTGCTTTGCCTC(G/A)AAAGTGTCATCAATTTGTAATTTTAGTATTAACTCTGTAAAAGT
				GTCTGTAGGTACGTTTTATATATATAAGGACAGACCAAAAATCAACCTATCAAAGCTTCAAAAACT
				TTGGGAAAGGGTGGGATTAAGTACAAGCACATTTGGCTTACAGTAAATGAACTGATTTTFATTAACT
WI-19135	20 GA	:	:	GCTTTTGCCCATATAAAATGCTGATATTTACTGGAAACCTAGCCAGCTTCAC

			TACACAGAGGGTCGCACTTGGACTCTGAGGGTTGGGAAAAGGGGGAAAAAGGGAAJGATGGAGACACTCTGCTGTCAGCCGGTTTACATGGGAACAGGGTTAACATGGGAACAGGGTTAACATGGGAACAGGGTTAACATGGGAACAGGGTTAACATGGGAACAGGGTTAACATGGGAACAGGGTTAACATGTGAACATGTGTTAACATGGGAACAGGGTTAACATGTGAAACAGGGTTAACATGTGAAAAAGGAAAAAGGAAAAAAAA
WI-19236	54 GA		CACCTTACCCTTTTCATAGGGAAGAGTGTCACACTCCTGGCTATCTCAGGGGGAATGGGGAAAGGAAAAGAACTTTCAAGGGCAAAAGAACTCGTGGGAGGATGTCTGTTGTATGTA
			GTGCCAGTCTTCCAGAAAGCAAGGACTGCCCTTCATTCAGCCTTGCTGCTGACCTCCCAGCCTTTCTAAGG
			CTCAGCCCCACGGGACTCTGGTGGCTGCCAGCTTGTGAGCTATCTAT
WI-19144	222 GC	_ ;	ACAGGAGACCCI I I GCAGGACI I GCACACAGGAGGCI GI AGCCAGGAAACCCI CI I CCCI GGI CTGGCTCTGCTGGAGCGGGCTTGGGAACCAAACACCTTCAGTGCTGGTG
			CCCGTCTAAGGGAGAAAGCTAATGTTTTCCACAAGACTGAACAACGTGTATTTACACGAGGGTAGAC
	-		GGCAGATGCCTGACAGAGAGTGGGTTGGCAGACAAACACACTAGICAJATTTTCACGGGTGTGGGGCAC
<u>*</u>			ATGGGTGTGGCACCTGGACGTGTGCACGTGTGGCGGTCTCTGTGTGAAGCCACCGTGCTTCTTTTGG
19139b	110 CA	•••	GGGGCCGCGAGATCTAGCATCTCTGAAATCCTGGCTGTCGAGGCTTTGAAG
			CCCGTCTAAGGGAGAAAGCTAATGTTTTCCACAAGACTGAACAACGTGTATTTACACGAGGGTAGA
		,	CTJGGCAGATGCCTGACAGAGAGTGGGTTGGCAGACACACACTAGCATTTTCACGGGTGTGGGGCAC
-iw			ATGGGTGTGGCACCTGGACGTGTGCAGCATGTGGCGGTCTCTGTGTGAAGCCACCGTGCTTCTCTTTGG
19139a	66 CT	,	GGGGCCGCGAGATCTAGCATCTCTGAAATCCTGGCTGTCGAGGCTTTGAAG
			GGCTGGGACCTTTAGGAAAGTGAAATGCAGGTGAGAAGAACCTAAACATGAAAGGAAAGGTGCCT
			CATCCCAGCAACCTGTCCTTGTGGGTGATGATCACTGTGCTGCTTG[T/C]GGCTCATGGCAGAGCATT
WI-18910	112 T C	1	CAGTGCCACGGTTTAGG
	×		TTCAGGAGGTGGAGTTCGTCGTCAGCTCTCCTGCTGTGATGTGGAAGCTTCTGATATTTGAAGAAACA
			CGAATGTCTCTGTAGCTTCCTCTCACTGCCCCAGTATTGCTCTGTATTTATCAGCGATGCCCCTGTGT
10005	7		CACTCATGCCTTGCCTAATTGTTCACAATGGTGGAA[A/G]GCTTCATGTAATATGATCAGGACCCACC
_	(CGTTTCCCTAACTCACCCAGTTTAGTTTGGGATGATTTGATTTCTGTTGTTGTTGATCCCATTTCTAA
			CTTGGAATTGTGAGCCTCTATGTTTTCTGTTAGGTGAGTGTGTTGGGGTTTTTTCCCCCCACCAGGAAGT
			GGCAGCATCCCTCCTTCTCCCCTAAAGGGACTCTGCGGAACIC/TJTTTCACACCTCTTTCTCAGGGAC
WI-19222	179 CT		GGGGCAGGTGTGTGTGTACACTGACGTGTCCAGAAGCAGCACTTT
			AAATAATGCAACGCAGGAGGAGAAAAGAAATGCACTAAGACAAGAACATTCTCTCATAGAACATTG
			ATCTGTTTTACAGGAAACAAACCTTGCCTTGAAATTTACACAGTGAGACTGTACATAATTGCATGAA
			A(A/G)TAGCTATTTTTCCTAAGACATTTTCATTCATGAATATTTTCAAGTTTTTCATACTGTACA
WI-19117	134 A G		CATTICTTAAAACACATGATACCAGCAGCAACTGAAAATGAATGCCGAATTTG

			The same of the sa	
				CTOCTGTTCGTGACCTGACAGGGTGACAGGCCCCTTTCACACTCCTGTCCTCCTATCTTCCTGGGTAGAGTAGATGGTCTTCCATCCCCAGGGAAGGGGGTGCAGCCAGGGGTCAG
Wi- 19134c	263 C			GCCCTTCAGAGCCAGGGCTAGAGGATGCACGGTGGCTAGAGCCAGCTGCACTATCCTTTCAGAGCACTTCATCCTCTCCTCCTCGGCACCTGGGTGGG
, i				CTOCTGTTCGTGACCTGACAGGGTGACACAGCCCCTTTCACACTCTGTCCTCCTATCTTCCTGGGTAGA TGCCCTGGTGTAGGGCTGAGTACTGAATGGTCTTCCATCCCAGCAAGGGGGGTGCAGCAGGGGTCAGAGCAGAGAGAG
34a	162 T		0	CACTTCATCCACTTGCTCCTCTCTACCCTCGGCTGGGGAA
		·		GGTTTCACCAGTCTTTCCCAGGGAACTCCGATGAAGTGTTCCAACAAAATGAGCGAGTGAACCAAGA
		. <u>-</u>		AGAGGATGACATTAGATCCAGGAGATACAACAGAGGAGATAATCTĮC/IJCAGGATGCCTGIGAAGA AAGATCCCTGGATCCCAGGATGATTATAGGACAAGTTGTTCATAATCCAGCAGGCCAGAAGACTTCC
WI-19224	112 C	<u>T</u>		AGGGAAACTCATTCAAGGAGGTGAAAATGATGGATGACTCCTCCAAGATGAAAA
				GCAGCTCCTAAGGACCACTGGCATTAGCTCTTGCTTTTGATGGCATTCTCTTTCCACCTTGTCTCTC
				CTTTGCTCCTCTGTGTTAGTGTGGCAGGTATGACAACTCATCCAGTGGAAACACAGGCTCACACTGCCCCTCACACTGCC
WI-19201	179 T	c		GTGTGATGTGCTCAGAAGGTCAGACTCCATGTCTGCCTTGGCCTCAA
_				GAAATGGCTCCACTCAGAGCTACCCCGGTGATGAGGATAGGGGAA[T/CJACTTCTATTACATTAAAG
				GCAACAGCAGI AGI AAAAAGG ACAGI GI GCACAGA GCAATAAAG GCAATAAAG
WI-19034	45 T	: 0	•	ATTTGCTACTTATAAACTTAGTCCCTAAGTCTTCTTATGCTGTGCTATATA
				TGTTCCTGAGTCACGCTGAGGAGAGGCGCTTCACTCAGGAGTTCATGCTGAGATGATCATGAGTTCA
			,	TGCGACGTATATTTTCCTTTGGAAACAGAATGAAGCAGAGGAAACTCTTAAATTTGAACTCAAGGGAGAAGGTAT TGATTAGTATCGTGAGTTTGAAAAGTCTAGAACTCCTGTAAGTTTTTGAACTCCAAGGGAGAAGGGTAA
WI-19102	25 C	<u>0</u>		AGTGGAATGAGTGTGAGCATCGGGCTTTGCAGTCCCATAGAACAGAAATGGG
-iw				AAAGGAGGAGAATCTTTTACATAAATGCCTTGCATCATCCTCCAGTCCCTCACTGGGGGAA(A
18548b	65 A	A G	1	GJAAAAAGCATCTNTCAAGTCTTTGTCCAACTTTGGCTGC
-≒				AAAGGAGGAGAATCTTTTTACATAAATGCCTTGCATCATCCTCCAGTCCCTCACTGGGG[G/AJA
18548a	62 G	G A	•	AAAAAAGCATCTNTCAAGTCTTTGTCCAACTTTGGCTGC
				GGCAGCAGCTTTTTAATTTGAACACTTTCTTGAGGACACACCTTCAGTACAGTTAACAAATGGT
				TACACCTGAAATCTGCTGAGGGGGGGGT[T/C]AAGATCCACAATTGCAAAGGCCACTGCTGGCTCA
WI-18700	97 T	 O	:	CTTCCTCACA
				CAGAGGGAAAAGTTTATTGAGTCAGCCACAGAGGAACAGAGAAACAGACACAAGGAGGTTCTGTGT
				GCATGGAGGAAATCAGGGCGCCGNACAGCTGAACCCTGCGCAGGACAGAGGGGGGGGGTJGGACAGCA
WI-18501	121 CIT	JT	:	GCGCATGCCACAACATTCA

			ACAAAAGAAAATGGAAATAGGTTTGCGAAAACTTATCTGCATGTACAAAGTAATCCCCGTAGATAA GGAGAGGCAACCCCNGGAACAIC/AJACTGCTGGATAAATCGTTCATTAAAATTATATATCTCTTTGCAT
WI-18017	87 C A	1	CAGAGCTGGTGGAAAATCAT
 			TTATTGCGTTCCTTCGATAACCTCTTTGGGACTATGAGATCATCACCAGATGTGAAAAACGAAAGCA
18148b 1	101 A G		GTGATTTCAGAAACCNTCGATTCTGAATATCCC[A/G]TGGCGGCATATGCAAAGGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAG
			TATACGGATCATGTATTTGTGTGACCACCACTACCACAGTCAATTTGTAGAGCAGTTAAATCAC(T/C
			JGCCAAAATTCCCTCTTGCTTCCTTGTAGTCAGTCCTTCTCCCAACCCCAGGNACTTGGCAACCTGTTT
WI-18254	64 T C	***	TCCGTTCCTAGACATIT
			CAAATGGGTGGACTGAGTGATAAAACGCATATTGAGAACAAGACGGCCTTCTGGCCNCTCTGCGTCC
W-			AAGGCTGTAAAAGGTCTCAGGATTGCTGCTAAGTGAGCCATGAACTGGCTG[C/A]GTTTTCAACCTTTC
18265b 1	117 CA	:	CTTGGGTGGTTCTTCAG
			ACCACACATTTGTTGAGAGCCTATTGTGGAGAACAACAG[C/T]TTGGGAAGTAAAGGTTGATTACT
WI-18295	40 C T		TCCTCTCCAAGGATGATATGTTTAATGAATTCCCTTTNCCTTAGCTTCATTCTTCATAATGCCAAA
			GGGCAAGAGACAGAGATTTAATTGAATAAAACTCCAGGCTGTGACACGGGTGGGAGACACAAATT/
×-			CJGAGTAATTAACAACATAATATTTANATGACAGTGCAATTAATTAACGTCCTGGGTAAGCCAGAG
18459b	64 T C	;	GGGGAGGAGGCGTCTTTCA
			TTTATTTTAAATTTGCATCCTGAGATAATAAAATTTTATCTGACAAGTGAACAATG[A/G]CAGAAGC
WI-22585	56 A G	•	AGCAGTGAAAGTTTCGGAGAGGCAGGTATCCTTCATTTTGGCACAGCTGTATATAGATTGA
			GGGCTGTGGAGTAACAGAACTTGATGGAAAATTGGC[A/GJTCTGTGTAGAATGATTCTAAAGCTTTC
WI-21155	36 A G	1	AGACAAATGGCAGA
			GCCTTTGCTCTTTGCTGTCCTCAGAGGCCTCAGATGGATACGCAGCAACTTCCTTTTGAACCTTTTAT
STS			TTTCCTGGCAGGAAGAAGA(G/A)GGATCCAGCAGTGAGATCAGGCAGGTTCTGTGTTGCACAGACAG
F02766b	88 GA	•	GGAAACAGGC
			GGCACGATTCAACCCATAACAGAAATAACTCCTTATTGGAAACAAGGTTTTATTTTGATATGATG
	-		AAAATATTTGGAACTAGAAAGTAGCAGTGA[C/TJTGGACAACGTTGTAAAGATATTTAGGAACTAGAAGATATTAGGAAAGATATTAGGAAAGATATTAGGAAAAGATAGCACJ
Wi-			GAACTGTTCATTTAAAATGGTAATTTCATGTTATGTGTATTTCACCTCAATTAAAGAATGGAACATGT
19888a	98 CT		CTTATAATTGTAAATTACATGAGANCATATTTATGTTGGAAGTGAACACAAG
			TGAGACCATCCTCCTCAACAAGAATCAGTCAGTTCAGCACCTAATTTTCCCACACTGAAGTCTACG
			CAATTITCATGCAGA[C/TJTGTGCACACAGTACAGTGCACAAATCCAGAGGGCCAACACATTGTAATT
WI-21485	82 CT	:	CATATCATCCGTTTCCAAA
			TCAGAATTGCTTTCCACTGCCCCAAAACCAAAAGAATTTAATGAATG
			GAAGTTAAAGAAAGGTACCTTCCTTGGAGGTTGCATGACAGGATTAGTCTTCTGTTTTTTTT
20601a	125 T C		GCAAGIIIGAACCAGIGAIIAIGIACCAIIGCAICAGAGCAICIGIIICCCIGICAGAICCCCACIAG

Wi- 20561b	94 T		!	CGTTGCTTATTTAAGATGGCTGTTTATAAGTATAAAGCAGTTTGAGCAACACTGATTGTGCATTATTG TACTTCAGATGAAAAATCCTTACATG[T/C]GGAATCAATGTCTTTTAAAATTTCAGATAAAGAATTT NCATTTGAGGAGACATACAATTGTAA
WI- 20561a	25 A	9	;	CGTTGCTTATTTAAGATGGCTGTTT[A/G]TAAGGTATAAAGCAGTITTGAGCAACACTGATTGTGCATTA TTGTACTTCAGATGAAAAATCCTTACATGTGGAATCAATGTCTTTTAAAATTTCAGATAAAGAATTT NCATTTGAGGAGACATACAATTGTAA
WI- 20116e	T 69	Α		GCTITICATTITICTGTCACCCACCCTGTCCACCAGTTATGTTGGCCTTCAATATGGCGTTAGAACAT A[T/A]ATAAAATCTATATATGTATTATACACACACACACATTCTACCAGCACTGTGAAGACACAGA CTAGGCTTTACTAGGCTTGGGGCCTCTCCCATGCCACTTAAAAATGNGCACAGGTTTGCTCTATGCAAGATTTCAACAGAGTTGGTCTGGCCATCAGTCTGCAATTTCCCCGAGATAA
WI- 20116c	59 T			GCTTTCATTTTCTGTCACCCACCCTGTCCACCAGTTATGTTGGCCTTCAATATATGGCGTT/AJTAGAA CATATATAAAATCTATATATGGCGTT/AJTAGAA CATATATATAAATCTACCAGCACTGTGAAGACACAGA CTAGGCTTTACTAGGCTTTGGGGCCTCTCCCATGCCACTTAAAAATGNGCACAGGTTTGCTCTATGCAA GAATTTCAACAGAGTTGGTCTGGCCATCAGTCTGCAATTTCCCCGAGATAA
WI- 20116a	22 C	<u>. </u>	ı	GCTTTCATTTTCTGTCACCCACCCGCTCCCCCAGTTATGTTGGCCTTCAATATATGGCGTTAGAA CATATATAAATCTATATATATATACACACACAAACCATTCTACCAGCACTGTGAAGACACAGA CTAGGCTTTACTAGGCTTTGGGGCCTCTCCCATGCCACTTAAAAATGNGCACAGGTTTGCTCTATGCAA GAATTTCAACAGAGTTGGTCTGGCCATCAGTCTGCAATTTCCCCGAGATAA
WI- 20466b	133 G	A	:	AAAGATTTGCAGTCCTGGGACACAGTTTGGAAAACACTATTTATAAGGTTGCACATATTACAAACAG NTCCCAAATGGTGAAACTGGTATTCTAAGATGAAAGCTTAATGAACATAATGAAGTGAATAAACGC/ G/AJTGTGAACTAATGTTTAAAAAGTTAGAGCTTGTCTCAAGTCAGTACAGCTCTTAAGATAAAATACAGTAAAAAA
WI-21444	39 A	: 	1	CTGGGCAGCAAGTAACCATTTTAAAGAAATACTCTCAACĮA/GJAGTTCTTTTTTTTATGGGGTATTTCA GTTGTTAACAAAGTTAAAATACTTATTGGAACTAATTCTTTGTATTTTATTCGAGGAAGAAGAATCT ATAAGATTGACTTACTCATTGTTGACTGGTTTTTTGAAGCCTTACTGGGG
WI- 21034b	148 T	:	;	AGAATGGACAATGATGCAGATGATTTGTGAGCATTTTGATGAGAAAGTGGTGATTAGAAGGATACAG CATAAATTTAATTGTAAACATGCTTATCTAGCTAACCTAATCTGTTTCTGTAGAATTACTGGTCATGG GAGATTGGATAGA[T/C]GCCTAACCTATCTCAATTTTAAGTAATGTGAGCAA
Wi-	2000	<		GGCGTGTATTTGATGCAATGTCCAACCAGTCAAGCTATCATTGAAATCCAAAATATTTCCCAGTAGAGACAGCGTGCAGAGCAGTGCAGTAGAGCATATTCCCAGTAGAGAGATTTCCAAAATGTAAAATGTGTAAATTTAAAGAGTTTAAAAAATGTGAAGCATTAAGGGATTGAAATGATGAGGCTTAAAAACAACAAACA
216022	5000	(A)	:	ACA GARANT TACGGCT TACAACACACAT TACAAGACT CATGAAGACT CATGAAGACT TA

				CAACTGCTCTGAGGTCTTTCACTAGCTGATTTATAATCCTATATT[A/T]AAAAAAAAATCTATAGTCTG
187				CAGTCTTTTGACATACTTCTCAAGGGTGGATATGTGGTGGAATGCAGACTCCATCAATATGTGGGGTTA TTGTTTGCTTTTTGTAGCTGCTGTTTAGNAAATCCCAGAGGAATATGATTGAGGCCAGAGTTA
7vI- 21805a	45 A	-	ţ	CATTGGTTCATAAAATTCGAACAGTTGAAGGCTGTTTTTGTTAATTGCTG
				AAAAATCCATAATTATTGAAACCCAAGTTACAGAGAAAGTTCGTAACTTTTTTATTGAATTATTGAC
Wi-				TCTGCCCGCGTGTCGTTCGTCGCTTTCAACTCCAGTCTGTCAATGCCCCTGTGTAGGTGGGGGGGG
21778b	155	:	•	פורופפתרוורופאפתורקוורופחואמאתמאמתמאמתמאמתומחו
				TGAGTCAGTGGTCAGATGGGGCAGTTGCGCTCAGCTGCAGTCCCTGACTCCGGAAACACTGTGCCTCT
				CAAATGATCTAGAGCTCATCCTTGGGCGTACATGAGGGGCAGTTGTTGTTGTTGTAGTACCCATTTAGCCC
		-		ATGGCTCTTCAAGCCAATTCACACTGGGAAAAACACACCCTCACAAGATGCCTATCCATTTGAGTTC
WI-20907	241 A C	c	•	ATACAGGTTTTAGTAGCTAGAACTAAAAACATTTTTA[A/C]AATTATCTA
				AACAGCAGCAGTCACTTCCAAAATGCAAAAAAAATTACAATTTTTAGAATAAAAATTATAATGTTTA
				TAATGCGGGTCAGAAGANTTGAAGGTACAACAGAATCAAAATCACGCAGCACTGGAGGCGGCTGGAG
-IX				AAGCCAAAGCCCACTGGTCAGGGGTCCAAGCTGACAAGAGTCCCAACCTGAGAGGTCTCCACACCC
21449b	222 C		•••	AAATCATACCCCTCAGCTTCCCAIC/TJTGACAGAGCCAGTGTCCTCTGGGTTAG
				GCTTACAAGGAAGOCTGTGGACAGGCGAGNTGGGTGGAACCGACTCCAGCCTGGAAAACCTGCCCTC
				OCATOCCOCTTAGCGCCTTCTTGGCCTTCCGGCTGATTTTCTTCGACAGCTGTTCTGGCCAGGGCAAGG
-ix				AGCTGTGGTGGGGGGCAGTATGAJAGCCAGGGACTCCCTTCCCACAGATGAGGCCTAGGGCTGCAA
21558a	157 G	A	i	AAGGGCCCCGTGAAAGAGATGTGGTCAAGGCTTTATGGGTCTCTCCACC
				TTTGCTGTGGAATCCATGAGAGCCGGAAGCATCGTTGGGGCCGTGGCTAGCAGAGCTCATGGNGACCA
				GTCCTGGGCCTGACCAATGGGTGATTACATTTAAAAACCAAACCAAAACAAAAAAAA
×				ACAGATCACTTGCCATGGACATCAGTAATCTATTGGTAATGGTG[G/A]AAATTTCATGAAAATTICC
22187b	178 G	A	1	CCTAAACCATAACAAAACTGTCCTCCTTACCCCAAAAGTGCTGGAGGAAAG
				TTTGCTGTGGAATCCATGAGAGCCGGAAGCATCGTTGGGGCCGTGGCTAGCAGAGCTCATGGNGACCA
				GTCCTGGGCCTGACCAATGGGTGATTACATTTAAAAACCAAA[C/A]CAAAACAAAACAAAATACCA
Wi-				AGAACAGATCACTTGCCATGGACATCAGTAATCTATTGGTAATGGTGGAAATTTCATGAAAATTTCC
22187a	110 C	Α	•	CCTAAACCATAACAAAACTGTCCTCCTTACCCCAAAAGTGCTGGAGGAAAG
				TCATGAATATGCAGCCTCCATAATCTTCTCCCTTGTAACAAACGTGCAGTCCGTTCACAAGCTGTAAA
				AACAAGCCCAAACCCAAGACATCACAAGAGGCAAGAGGCAGTGGCAGTGAGAAGGGAGCCTGTAAAG
-ix				GATGTTTCAAAGGAJAGGGTCCCGGCTATGTGGCCACTGGATGTAGGCAGTGAGCTGAGTCCAGGC
21609b	146 GA	Α	•	TTTCGGTCTGGGAAGTGGCAGAGGCTGAGACANTGGCCAAAGAGGAGTTGGAG

				TCATGAATATGCAGCCTCCATAATCTTCTCCCTTGTAACAAAIC/TIGTGCAGTCCGTTCACAAGCTGT
				AAAAACAAGCCCAAACCCAAGACATCACAAGAGGCAAGAGCAGTGGCAGTGAGAAGGGAGCCTGTA
WI- 21609a	4 C			AAGGATGTTTCAAAGGAGGGTCCCGGCTATGTGGCCACTGGATGTAGGCAGTGAGCTGAGTCCAGGC TTTCGGTCTGGGAAGTGGCAGAGGCTGAGACANTGGCCAAAGAGAGAGAGTTGGAG
-iw				ACATTCCGAGCCAGTTTTTCCATATTGCTCCACTGCCTAAAATCCCTTGGTGCCTCCCTAGGGCTTCAGGTAAAACCTCACCCATGAAGCCTCACCAAAATCTGT/GJACCTCACCCATGTCTCCACCAAAATCCAAAAAAAAAAA
22512a	104 T	 5	•	CACATTICCCCCACGTCTAAGGGCAGGCAGCTACACTTGACTGCA
				ATCGGCAAGCTACAGCCTTAAAATCTGAGCTCCTCAAGTGCACAATTTCTGTCCCTTTTAAGGGCTCA
-iw				TTTC[A/G]TGCACTGGTACAGAACACAGGGAGTTTCACAATTTTTTTATACAATGCTTGGGAAT
21028b	139 A G	- 5	:	CTACGG
				ATCGGCAAGCTACAGCCTTAAAATCTGAGCTCCTCAAGTGCACAATTTCTGTCCCTTTTAAGGGCTCA CAACACTAAAGGTTTCACATGAAAGGGTCGTGATTGATTG
Wi-			-	GGGTTTCATGCACTGGTACAGAACACACAGGGAGTTTCACAATTTTTTTATACAATGCTTGGGAATC
21028a	121 A	:	•	TACGG
Wi-	α α			ACAACATGCCTGTTCACAGGGGAAAAATCCTAGGNAATAACTTATGTGTACTTCTTG[A/G]TTTCA TCATACAAGACAAGCACAAAAGCACCACCATGCCTCTGAGGAACATTGGACCATGCACCTTGAAA
100230	۲			NA.
WI- 18829b	35 T	A		ACAACATGCCTGTTCACAGGGGAAAAATCCTAGG[T/AJAATAACTTATGTGTACTTCTTGATTTCA TCATACAAGACAAG
				AGCCAACTCAAGGCCAAAAAAAATTTCTTAATATATATTATGCGAGGGGGGGG
WI-20964	87 G			AAGAATACTAAGATTAGATGAACACACACTCAGAAATACTCTAGGAGAGCTGAAAAAAGAAGGAACAGAATTAACAAAAATTAAGGCTGCTGGGGGAACCTGAGTCCATGTTAACAAAACAAATTAAGGCTGCTGGGGGAACCTGAGTCCATGTTAAGCTTG
				CTCTGAACTAAAGGGCCGTGAAAGGCATGATTGGTTTTGGCACACAGAGTGGATAACCAĮT/AJACAT
, M				TGGCTGGAATGAGGTGGTCAGGAAAATAAANTGCACAAATCTAACACCCATGTTGAAATCATGTCGA
20059a	59 T	A		CATCTACAGACTATTTTCTCCCTTAGGAGATGAGGAGTATGGGCCTTAGGT
				TGTTTTTGAGGGCTGTAGCAGACTACATAATGAGCGGTGAAAGCGGCTGCCTTCCCCTCTCCTGACAC
			•	CAGCAAGGGGGAGGCACCATCACCGGCCCTGCCCATCATGCATCATGATTACTAGCACTAGGAA
WI-				GCCAACGGAANAGGACCCCGCGCGCTTGCT[C/T]GTGTTTAATCCAGGTTAAGCTATACACGTTTAA
22130b	165 C	:-	••	ATACATGI CGGAGGI TACATGGT CTCATGC GATGATGAC

WI-21661	117 G	<u>၂</u> ၂		GCTTAGTCTCCACCTTTTAAATGTACTCTAGGTACAAAATAAAACATTATACACATATAAGGATCAGT CTTTCCAACTTTAGAATGTATAAGAATGACATTTTAAAATAAAATA[G/CJTTTAGTCACAGTC ACACAAAACTACCTTCTAAGGAAAACTGTCCAGTGAAGCCGTTAAATTTGTGCTTTCAGCTATGAAG GA
WI- 21980a	25	T C	:	TCAGTTTAAACACATTCATCAAGGA[T/C]AGATTAATTAATGTCAGGTGAGCATAAAAGGGAGATTA TAAACCAGAAATGTGTTTTCTGGGAACCAAGTTTCAAGTGACTCAGGATAAGTTTTATTAATTTCAT GGGTGAAGCCCCTGGGATAAAG
WI-21636	7.1			TGCTTGTATTAATGTGGTGTTTACATTATCCTATTTCACAGATGGAAACAGAAAATACCAGCTTTTTT AAA\A\G\TAGCAATATCTATTATTATAATAAATATTGAAATAACACCATAATAATATTCACTAAGGA AGTAATCTAATTGTGTTGATTTTGCAGAGGGAGAAAACATTACCTCTAGAGCTGAGGCTATTGTGC TCATGCAAACTCCAATCTGAAGGTGGTAGAAACTAGGAAGGGACAGGGATTTC
WI- 22457a	112	 8		TTGCTATAATTTCCTTAAAAATGCAAAAGGTACATCACAGCAGGGTATAGCCAATCACTCATTAGA CAAACAGTAAACATACTGGACACGGTTTCAGGCATGAAGGATACA[G/A]CAGTTAATTAACTAAAG GAACAGAGTCCCTGCATTCCTGAAGCATAGGATGGGGAAACAGTAATGCAGATTAATACCTGGGGCC AAAACCCACTGAACTCACCCCAGCTGAAACACTGAAGGATACTGGGTAAGGA
WI- 21524b	97	CT		GCCGTGAGGGTTAGCGTATAATGAAAGGTGTAATAGCCTGATGTACGACCTTCGCGTCATACTTAT AATGGTTAATAACAGCATTCCTGTCTACCCCCTJGATGATGCTTCTCTCTGCAAATGGACTATTTGCC CAGTTGCAACAGGGCTAAGATTGTCGCACTATGACAATGAGTTGTTGATTGTTGGAGTTGCGGTGTC CTGTCAGAAAGATTCTTGACTTTCTCCAAGTTACTTCCTTC
WI. 21524a	35 A	A		GCCGTGAGGGTTAGCGTATAATGAAAAGGTGTAATĮAVOJGCCTGATGTACGACCTTCGCGTCATACT TATAATGGTTAATAACAGCATTCCTGTCTACCCCGATGATGCTTCTCTCTGCAAATGGACTATTTGCC CAGTTGCAACAGGGCTAAGATTGTCGCACTATGACAATGAGTTGTTGATTGTTTGGAGTTGCGGTGTC CTGTCAGAAAGATTTCTTGACTTTCTCCAAGTTACTTCCTTC
WI- 22652a	32	 T		TTACCTTCCAAACCAGGCCACTTTGGAGAAAGGATJAAGAGAATGCTATTAATCAATAAGCCAAAGAC AATAGGGACTACCTGCCACAGGAC AATAGGGACTACCTGCCTGCCACAGAGCC TTTGCACATGCCTGCCTCCCTGCCTCACTCCCTGCCTGCC
WI- 21703d	197	197 A G		CAACAGGCTCATGGAACAGAGCCTAGGGATCCAGGAGCATAGGAGGGTGGTGGTGCTGGGCGGGGCTC TGCATCCCCTTTCCTCAGCACACCACCTCTTCACCCTCCTGGGAAAGCAGCATTGGAGCCTACACCA CTTGTGCTTTTCTCACCAGGGAAAGAAATGCAGGTATTTGCAGAGGGGAAGTGAGTCTGGGAAQAGG TGGGCAGAGCAAGGGCAAGGACTTAAGGGAACTTGTGGGGGGAAGAG

WI-				CAACAGGCTCATGGAACAGAGCCTAGGGATCCAGGAGCATAGGAGGTGGTGGTGGTGGTGGCAGGGCTC TGCATCCCCTTTCCTCAGCACAGCA
21/030	4 40	1	•	TGGGCAGAGCACAGGCAAGGACTTAAGGGAACTTGTGGGGGAAGAG
WI- 22663c	139 G		!	CCCTTGTCAGTCTGTGCCTCGGCTTCTCACTGCCGAGGTGAGCCGGCGCTCGCT
wi-				CCCTTGTCAGTCTGTGCCTCGGCTTCTCCACTGCGCGAGGTGAGCCGGCGCTTCTTA TTCCAGTCTCGGTGAACATGGCCTCACTCTCTCCGGCGCGCGC
22663b	55 CT			AGGCGGAAGAGCTTCCTCATTTGCTGAGGCTTTTCCTGAATCCGTGTTGAATGTGGGT
<u>×</u>				CCCTTGTCAGTCTGTGCCTCGGCTTCTCACTGCACTGG[C/T]GAGGTGAGCCGGCGCTCGCTAATCTTA
22663a	38 C	<u>L</u>	-	AGGCGGAAGAGCTTCCTCATTTGCTGAGGCTTTTCCTGAATCCGTGTTGAATGTGGGT
			-	
				TCTTTTATCCTGCTGCCTGCCTGAGTATTCTGGGAATCCTACAAGGATTTGAGGGAGCCCTTGGGATT
WI-22668	99 A G	: (5)		CCAACCTAACAATTAGTTTTCTGTAATATT[A/G]TTCTAGTCCATTTAGATTGTGTAAATGATCTAA ATGGNGTAACCATTTAGTTTAATATAAAAAGTATAACAGCATTTAAGTCAGCTTTTCGAAGAAAACTTTTATT
-				AAGATATAGTGGCAGGACAAGATTGGTCACGAAATCCTGGCTTCAGTTCTGA[T/CJAGCACCATTTT
WI- 22631a	52T	1		CAAGTTTTAGGCAAGGTATTTAACCTCTCAGGCTCATTTTCTCTTTTGTAAAATTGTGATAATGGACC TATGTACCATCATAGGGTACTTGGACAAATCAACTGAAATTTTT
				AATCCACACATTTCACGGAGGGGACCAGCCTGCCATGTCGTCCCAGGGGCTCACAGCGGCGGCGGCTAC
				TCTGCTGGTGGTTTGGTGGCAGGTGGAGGCGCGCATTGGAAACCGTAAGGCATGACAACG
WI-20258	157 G			AGGAGGGAAGCAATTCACAGCCTCTTGACGTTTCCGGGGAAAGTACC
				ACTACACATATGCTGATTTTCAACAGTAAAAATAACATTTTACATTTGTAGAGAAAATCTAGGGTCT
				ACTAAATAATGTAGTACTTGTTTCCACTCTCCTGAACTCTGACAGGAGTGTTGTGGGAAACGAAGT CTGAAAAGGATTCAAAGGGGGGTAAGATTTGCCACAGATCCTGTAAAGGAAAAGAAAG
WI-22714	212 C/	Α		ACCAACCCCA[C/A]TGAGTAGGGGCCAACATCCTTAACAAGCTAGTTGCT
				TGGGGCTACTTTAGATGGGATGGCGTCAGGGTCTGGGAAGGCCT[G/AJTCTTAGAAGACATTACCCA
Wi-				AATGATGAGGGCAGCCAGTCGTCGAAGCCATAGTTTGGATGGCGAGACTTTTCCGGCAGAAAT AGCAAGTGCAAAGGGCCTGAGGAAAATGAACTTGGCGTTGTGGTAACTAAAGTGGCAGAAAT
22734a	44 GA	٩	-	NGGCTGAGGTTTAGTGGATG

	-			
				TGATATGATGTCTGAGATTTGCTTCCAAATATGCCTAGGAAGGGAAGAAGTGTTTAGAGATATAGGA
WI-22724	117 A G	;	3 3 5	TGGGATATGTTTGGGAATT
WI-22750	48 G A			TGTAACCTGTGTTTTCCTGAAAGTTGAGGGAAAGCTGAGGCAGCTAAT[G/A]GGCTCATACAAAGGTTTGGAAGACCCATTCTGACTGTGTGTCTAAAGGAGAGTCAGCATTCTGACCATTCTGACTGTGCT
				TGCTGTTTCTTTAGTTCATGACGTTTATCACAATGTGCTACTGTTTCCATTGTTTACATC[A/G]TAGTAGGGAAAATAAACTCCCTAAGGGCAGCAATAATTTCTGTCTTTGAATCCTTCATTCA
WI-	ن د			TATTTGTTGAGCACCAGGCCAGATGGGAACTGAGGTATGTAGGTGTTGGGAGCCAGGAAAGGAAG
				CTITIONSCITATION AND TOPICS AND TOTAL CANADACTACTION AND AND AND AND AND AND AND AND AND AN
		•		CCTAGCCTCCTAAATGCAGACAATGTACCCATGACAAGGGCTACAGGATTTAGCAACCAGGA
				GGATGAAGA[C/TJAGCAAACTGATTAAGAGAGTAGGTATAAGAACCAGGGAGAGTGGGGGTCCAAAT
WI-22808	143 CT		•	ATC
				TCTCTCGTGTCTTGAGCCCTCATCCCCACCCCTCCAAGCCCTCATGCCCACCACCACGTGTCCCACATT
				COCCATCCTCCCCTGTCTGCTCCCATCTCCAAGTCCAAGGCCAGAGCCCTGGCAGCTTTCTG
				GGAGACAGCATGAAAAGGAGGGGAGTGGAGATGGCAGAGATGGGGTGGAGCCAGTGCGCTGTGGGTC
WI-21016	207 GA			CTIG/AJTTGGCGTGGTGATGTGGGGGCCAATCCTGAGGCCAGAGGTTCA
				TTGAACACCTGACCTGTGACATGTGGC/TJCTCTGGTCCCCATTTGTCTCCAACGGTGGCACA
WI-21031	31 CT			TCTTCATCTTTGTTATATATCTGCAGGAACACTCAGTCTCTTCAGCAGCAGCAGAAACACACAC
				CCATATCCAGTCTTCTTTGAAGCTTTCTATTGACTTTTAGGGTTCAGTTATTATATCCTTTATCACTAT
				GACTITICATITICATITITATITICATITICTICCATITICICICAAACTITITICATITITICATAAA
WI-21314	122 A T			<u>ACTGTTTTCTAAACTTCACTTAATTCTCTATCTGTATTTNCTTGTAGTTCCCTGAACTTCTTTTAGAGG</u>
	-			AGCGAGCATCAGAATCACCTAGAGGGTTGACTAAAACAGACTTCTGGACCCAACCCCAGAGCTTCT
				GATTCAGTAGGCCTGAGGTGGGGCTTAC[G/A]AATTAGTATTTCGAAGACCTTCCTAAGTGTTGCAG
				ATGCTGCTTGTCCCGGGGAACACACTTTGAGAACTATTGTTCTAAAATGTTCTCTCTTCTTTAAA
WI-21186	95 G A	-		GGAGAGACAGGAATTCCAGAGAAACTGCTAATTTAAGCATAATGTATTGAAT
				CCACGATAACTATAAAAGCAGAAAATTAGCTTTGAAAATCAAATAACATATTTAGTAACACACATT
				CATTITIATAAACACACATAAAGACACC[A/G]GGNTCTCAGTAATGCTCTAGTCCAGGGGTTCTCAA
wi-				AGTATGGCTTCAGACAAGCCCCATTTGCATCACCTAGGGGAATTGCTAAAATGCAGATTCTCAGGCC
21187a	94 A G	:	:	CTACCTACTGATCTGAATCAGAAACTCTGAGGGTGAGACCAAGCAACCTGT

			TTTTCCCCACATACCAATGCACCTGTTTGTATAACAATAATTATTAATAATCTGTACTATTACTGC CAGTGACATAGACATGATTCCCATTATATAACAAATAATTATTAATAATCTGTACTATTACTGC
			TTTAGTTATCTAGTGTTATTGAGAAAGGAGAAGTCAGCATAGTTTATTTTCCATGTAATAAAAGCTT
WI-21190	39 T C	1	AACACA
			ACCATGTGCATTTATTGGCATAGGAAATAGTGACCAAGAAATGCAGCANCTAAACTTGGAAAA
×			GAAAGGTGTTCTATGGCAACAGTGATGACATTGGTGTTCCTCAGCAAGTCGAJATCCAAACCTTC
97d	186 GA		CAAAAAGAAGCAGTCATTGAAAAATGCTGACTTATGCATTGCCTCAGGAAGAA
			ACCATGTGCATTTATTGGCATAGGAAATAGTGACCAAGAAATGCAGCANCTAAACTTGGAAGGAAA
			GAACTATTGCACAACCAAAACATTGTACATATCTGATTTAGACAAGCAAAAGCACTTCATGTTGTCT
×			GTAAAGGTGTTCTATGGCAACAGTGATGACATTGGTGTTCCTCAGCAAGT[C/T]GTCCAAACCTTC
19937c	185 CT	•	CAAAAAGAAGCAGTCATTGAAAAATGCTGACTTATGCATTGCCTCAGGAAGAA
			GAAAACGGGGTGCTAAACAAAGAAAAGTCTCAGATCCCACTGAAAATCTGTTCAGTTTCACAGGCTC
			TCTCCAGAAAAATGCATATGTACCAATTTGCATGTACAATTTCAGAGCCTTCAAATACATTCTGGGG
.¥			TCCAATCACATACTTCAGGTTCAGACTCCTAGCTCCCAATATTCCTACAGTTCTGAAGANTTAGCAGT
21117b	227 CT		CCTCTCATTTCTACAGTCTGTATTT[C/T]TTCTACTGAATCTTGGGTGGGAG
			TCACTTTTGATCATAATCCCCTGTAAAAGCTAAAGTTATTCA[C/IJITAACAGGAACTCTGTTTTCC
			TTATTCAAATGTCACAAGCCTGACGCGTTACTGTACATATTGCTAGCAGGAGACAACTGGAAATACT
W-			AAACAAATACTGGAATTCACATTACAGACAGAGGAAACCAACATGGGATGCCACACATAACTTCCT
21122a	42 CT		TTGTAGGTTTCACAGAGAGCCTATTTGTGGGTTGCT
			CAGTTTTGGTACAGGAAGGGCCCATGAATGTGGGCGGAACTATTCCACAGGAGIA/GJCAAGGAGAAG
WI-21254	53 A G	,	статтстства
			AAGGAAACTGCATGGGTACAAATJG/TJTCCAATTCATACTTAACAAGGTGGGGAAACGGGTCATTCT
WI-21054	23 GT	•	TGGCCTGCTCCAGAACAAGGGGCGAGTCTATGCACTCCTG
			GGGACCAGGGTAACACCATTAGCAATATCCGTTATCAGCCTTATTCTTTCCCACTGAGCCTGGCTGAA
			CTACAGCTGCCAGCATTTCCTGGGCTTGCATTTTCCCAGCTTCGTCACATCTTAATTTCAAGCTGAAA
₹			AATCCTGGGGAAGAGACATACTTCACTGAAGTCATTTCTCTATTC[T/C]ATTGTAGCCAGGGCAAAA
21059b	181 T C		TGAGATTAGGGATTAGCTCAGCCAGAGTTAGGGTGACTATCCTTGCCTAAT
		***	GGGACCAGGGTAACACCATTAGCAATATCCGTTATCAGCCTTATTCTTTCCCACTGAGCCTGG[C/T]T
			GAACTACAGCTGCCAGCATTTCCTGGGCTTGCATTTTCCCAGCTTCGTCACATCTTAATTTCAAGCTG
<u>×</u>			AAAAATCCTGGGGAAGAGACATACTTCACTGAAGTCATTTCTCTATTCTATTGTAGCCAGGGCAAAA
21059a	63 C T	1	TGAGATTAGGGATTAGCTCAGCCAGAGTTAGGGTGACTATCCTTGCCTAAT

				TCCACGTGAAGGAAGAAAAAAAAAAAGGGGGGGGGTT[T/C]TAAGGTGGCACAATTTTAAGAAAAT ACCATCCATTTTTCTCAGTCTAATCTGAATCCATACATTAAAACAAAAGTGCAAGTGATGAGACGAA
WI-20442	37 T C	<u> </u>		CA
WI. 01035	F			GTGACAAGAGGTGAAGCAAGGGACAAGGGGCAGCAGGGCAGTC[T/C]CTCGGGCCGATGTTCCAGGG CAAGCTACGTA
	•			ATCAGAACTGCAATCTGCACATGAAAAGACCTGGGGGGAATGCCTACATCTGGAATT[1/C]CATTAC
				ATCAACGTTAAATTTTGTCCGACCAGTTCTTCATTGCTGATCACTTTTGATAATGACAGAICCAACAI
WI- 22012a	57 T	10	·	GAAACI CCI GAAGCAAA I GAALA I I ACCI I GIGCI I I CAI GCAAA I I AGGGGACACCAAA I I ACCI I GIGCI I I CAI GCAAGGAACACCAGAAT I TAGGAACAGGGAACAT I TAGAAAA I GAAAAAAAAAAAAAAAAAAAAAAAA
		·		AGGACCTGCTCTCACACGTTCCCTCACCCCCACCAGCTTTTGGCAAAGATAGTTGACTAAATACCACT
				AAATAGTGGCTTTTTTTTTTTTTTAACAATGACCTTATTTTATCTTTTAACTITAACTGAGTCTTATATA
WI- 21149a	167 G/		•	CAGACCTGCCCAACTGGAAAGCTTTACACTGAACCCCAGGCTCTACCTG
				GGTGTCAACTTGGAAATAATGGTTTAAAAACAGGATAAGCATTAAGGAAAAACACTTTCAATGTGTC
				TTCCATTTGATGAATTTGTTTTTCTCTTTATCCCCGCAAGTGGAGTTTCATGTCCTCGGTGAAACCA
WI-	0 0	· ·		GACAGTGTGAATCTGTTCCAGCCCAAATCTGCAGCATTAGGGATGAGTTCTC[A/G]GAAGTGATTCT GAACTGAGCACGCACTCATGTCTGCATGGGGAACTCTGGGGAGAAGAGGCCT
20.101.3				CCATTRICAGTCCAGAGATGAGAAACTGGACCAGAGGCAAATCATGAACAGAACGGGAGTCAAGAGA
				AGGGGTTTCTAAGATGGAGAAGTGGGGGGGGGGTTTGGATCCAGTGGGATNTGGCTTCCQC/GJAGGTT
M-				GCAACCCCAAGGAAGTCTCTGGAAGCAGCACCAGTCCTGATGGGGGGAGCAGAAGAGCTGCCATCCTC
21382d	125 C	<u>ය</u>		AGTCAGGGTCCGAGTCCGAGGAGAGCTGCTCCTATAGTCTCGCAC
				TCCCTGAGGTTGGAGTCCTAGCATAGCTCCCCTCCAAAGAGGGGACAAGGGGGTCAGGGGCCAGAGG
Wi-				CTATTCCTGTGGGGCAGGAACATGCCAGGGCTGCTGGTAAATGGCAGGGGTCACCTTTACCAGGGGG
21437a	201 GA	V		/AJCAGGCATAGTGGCCCCTGNCTGCCCTGGGGCCACCCTGGGAACAGT
				CAAAATAGAAATTCTTTGTGAGTGGATTGACTTAATTTTATTTCTGTATAAGCTAAATATGTTGATCT
				GTTTTATGAACATGTATTTTATAAAAATGGTCACAATATATTTTTTAAGTTAACTGATTTATTGAGGG
- K-	•			AGGAGGAGAGAGAGII GACCAAJACJGI CI ACAI AGAI AGACAGI COI PACACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA
21202b	156 A	:	:	Α
		-		CAAAATAGAAATTCTTTGTGAGTGGATTGACTTAATTTTTATTTCTGTATAAGCTAAATATGT/CJTGA
				ICTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
21202a	61 T C			А

				GCATGAAAAGAACTCCAATCAGACTTTATTCAATAAAGCAGCTTTTCATGAATGCTTCAGGTCAGTG TATGATCAGCTCCAGCTTCCAGTATCAACTTGAGTACCTCATTATGAACCATATTTACATAATAGAAATTAGAAGTCAAAGGGGAATTAACATAATTACAAAAATTGAAAGGAATTAAAAAAAA
21627b	153 A (··· 5		GACAGTATACTAATACTCTACAATAAATAAGGGTTTAAAAATGTGTTGCTTA
-iM				GCATGAAAAGAACTCCAATCAGACTTTATTCAATAAAGCAGCTTTTCATGAATGCTTCAGGTCAGTG TATGATCAGCTCAGC
21627a	106 AC	G	***	GACAGTATACTAATACTCTACAATAAATAAGGGTTTAAAAATGTGTTGCTTA
WI- 21399a	75/2	· .	ï	GGATITIGAGITCCCAACTIGATCTCAAATICACTICITIGCATGTAAACAAGCTCATICCCTCTAAAGTT TCAGTITIC/IJITCACCAGTAAAGGAAAAGGTTGGACCAGACATGTTGGACCGTAATIGCTTGGTAA CTGCCTICTGCATTGTCTCTGAGGTTGTGTGTCCCTAGGACTAGGATGTCTCTTGCTTTCTGCC TTACCTAGGCATAGTGCCTGATAGCAGGCTGAAGCCCAATTCATACTTGT
				CGATCTGCTAAGATAGGAGGGTTAATTCTTTACATGGTGAGTGGGTCACAGAGACAAGACATCAAT
WI- 20320a	9 89		· <u> </u>	AGCAGTGCTGGCTTCTTAAAAACAGTAAAACCAATCAAAAAGAAAAGAATTTAGAGGTTCAGACATT AGGAACAANTGTGGCCAGAGATACCACAGAGCCCTTGAAGGGAAAGGCCTCACT
WI.21249				TTCTGGCATTCAAAATGTACATGTAAAAATCCAATTTAACAGATCAAAATTGTTACACTAAGTTTCACT TAGTATCTAAGTATCCAATTGTATCTAAGTTTCACTTTTAAGAAACATTATAAAGGTAATT AAAACTCTAGGTGTATACTTA[I/C]ATGGAACTAGTTTATTTCCNATTTAACTACTGTTCATTGCGTA AAAACTCTAGGTGTATTCAGCTGTTTTAAGGAATTATAAAAACATTGAGA
	-			TGACACAGCATCAATTTCATGAATACTTTGAAAGGGCCATTAGAAAAATAAGAGCCAATTTGGGTC ATTTGAGAAACATTTCAGCACAATTACAGTGGGGCACGGGCCGTTCGGCTCCAGCTGGGTTTCCC
WI-21504	147 C	1		AGA I GCAACAA I [G1] GCGG I I C1 GGC I C1 CCCAC I GGGGGA I GGGGGA I CGCACCO I CGGAAGCI CAGGG
				CTGCACCAGGGAGGACAGCTGCTGGCAGGACTAATAAACCCTTCCACCTGGCCATGGTGGTGTTCTATGGACCGAGGGCAGAGGGCAGAGAACGCTGAAACGCGGGCAGGGGGGGG
WI-21242	115 G	A	•	GGCACCAGCITCAGACCCTT
				TAGCCCTTCTGCCAACATCTGGCAATNTGAGGCTGGGGTGGACGTTGGCCTGATGTTGCCAGGAGTAGGATAGGAGCAGAGAGAG
WI-	α α	اً ا		CAGTCTGAAGCTTGGGACCTGGGCAGTGCGTCTTTGGAGAAGGCA[WG]AAAAGCCACAGCAGCAAC
201412	בר בר בר	 5		ACT AND AND AND AND AND AND AND AND AND AND

			SATION ATE TO STORY OF THE STOR
			TAGCCCTTCTGCCAACATCTGGCAAINIGAGGCTGGGGGTGGGCTTCTCAATCTTGCTTACTAAGCA
-iw			CAGCAGTCTGAAGCTTGGGACCTGGGCAGTGCGTCTTTGGAGAAGGCCAAAAAAGCCACAGCAAC
21475b	117 A T		ACTTAGGAGCAAGACCCTTCCCGTTCTCCACCTATTICCTCCCCTGAAG
			TGITTGTGTTCCAGCCACATCTTCTCCAAAGGAACCCACCCAGGCGGTGTGCAGGCTTGCTGCAGGG
			CTGTCTTCGGCGTTTAAAGTGCTACIGAGGAAIACAAICAITGICACGIAAGIICAIGCGCAATTCTTTTTACAATGCAGT
WI-	207 A G		AGCGICAGGCCAAACCI I CCGI GGACCI GGGGCAAACCAGCCAAATG
1	3		TGTTTGTGTTCCAGCCACATCTTCTCCAAAGGAACCCACCC
			CTGTCTTCGGCGTTTAAAGTGCTACTGAGGAATACAATCATTGTCACGTAAGTTCATCACCGCACTCC
X			AGCGTCAGGCCAAACCTTTCCGTGGACCTGGGNAAACCTGCCAT/CJTTCTTCTCTTTTTACAATGC
93c	179 T C	•	AGTITCAACATAGCATTGGTAGAGTAAACAACAACCACAGCCTAAATG
			GAGCTCAAGGGAAGACCCTTACCCAGATAGGGACTAACTGGAGGGGGGGG
			GGTATIC/G GGTCCTGGTGAGACAAAAGCAGGGGGGCCTGAGAACACAGAGGCAAGGTGGGTTTGGAG
			GGAGCACAGAGAGAGAAGAGAGAGAGAGAGAGAGAGAGA
199410	7100	;	AAACTGGGTACAGGAGCATTNTGGAAGGAGAACCAAAGGACAGAGAGAAAGCG
			TGGGTACATGGACAGATGTATATGTTTATGGGTTATATGAGATATTTTGATACAGATACACAATGTG
			TAATAATTACTTCAGAGTAAATGCGATCTCCTTCACCTCAAGCATTTATCCATAGTGTTACAAAGAA
W.			TCCAAGTATACTCTTGATTATTTAAAAATGTA[C/A]AATTAAAATTTATTATTGAATTTAGTTACCCC
21552h	166 CA	:	ATTGTGCTATCAATATTCAATCTTATTCATTCTTTGTAACTATTTATT
2222	1		TGGGTACATGGACAGATGTATATTATGGGTTATATGAGATATTTTGATACAGATACACAATGT
			/AJTAATAATTACTTCAGAGTAAATGCGATCTCCTTCACCTCAAGCATTTATCCATAGTGTACAAAG
-ix			AATCCAAGTATACTCTTGATTATTTAAAAATGTACAATTAAATTTATTGTTTAGAATTTAGTTAG
21552a	66 G A	:	TTGTGCTATCAAATATTCAATCTTATTCATTCTTTGTAACTATTTATT
			TCCTCGTACTTCATGCTCCCTCCCTGCCCCAGAACCTTACAAAAATATTTCTGTCCGTAGAGAGGGA
			AAGAGCTGGTGCCTGCTCTGGAGGCAACGTCCAGGTCCGGGAAAGGCACTCGTGGTCTGTGTCTGTGTCTGTGTCTGTGTCTGTGTCTGTGTCTGTGTCTGTGTCTGTGTCTGTGTCTGTGTTCTGTGTCTGTGTCTGTGTTCTGTGTTCTGTGTTCTGTGTTCTGTTGT
			TCAGTGATGGAGGTCTCCACTOGCCCCACAGGCAGCCTCGGGGCCAGAGATGATATGCTGTAA
WI-21512	54 C G		TCCAGTACAGGGGCTGCGTGGGGGTCCCCAACAGCTCCTTCTTTGGGGG
			CACATAGTITCTCAAGAAGAGGATGAACTGAAAACTCCTCTAAGGCAGGACAAAGCAACTTTCCATT
			ATTICTTAGTTTAGACCAGAATCTTTAATTTTATATTCTCCTTTAATAACIGICAAAAIACACAAAAA
<u>*</u>			CTTAGAGGAAAATATTCACAGTATACCAAAACATTTTAAGATAAAGAGGCAG I G I AAIUAAJAG I AA
21513b	1921GA		TATTCTCTACATACCACAGTATACAATGATGCCTTCCTGCAGGTTTAGGAAC

				TTGAACCTCTGAAGGTGGCTTATGTCTCGACTCCTCTTCTAGGACTGGTCATGAGGTGACGGCAATAGCATGAGGGCCAATAGCATGAGGGCCAAAGGAAGG
WI- 21514h	133 CT	i	•	/TJACAGGACTCCAAAGGACCTCAGAAAGCATTTAGCCAAATCTCCTTATGCAGGAAA1AAA1GAGG ANTTTAAGGCTCAGATGGGGTTAAGGGTGATTTGTCAAGGGTCATAAGGAACT
	3			TTGAACCTCTGAAGGTGGCTTATGTCTCGACTCCTCTTCTAGGACTGGTCATGAGCTGACAAGGATGAAGAAGTATCAAAGAAGAAGAACACATTACAAAAACCCCCA[AVGJTCTTCAAGGAAAGGAGCACATTACAAAAACCCCA[AVGJTCTTCAAGGAAAGGAGCACATTACAATGAAAAAAAAAA
Wi-	\ \ \ \		-	GCCACAGAGACTCCAAAGGACCTCAGAAAGCATTTAGCCAAATCTCCTTATGCAGGAAATAAAT
Z10148				ATGAAACATGTTGCAGTGCGGATGAAT[C/G]TTATCATGATGCTAAGTGAATAAGCCAGACACAAAA
WI-22020	27 C G			AATCCAAATGTATCATTCTACCTGTATGAGGGTACTT
				TTCATCGGTTCTTAATACAGTACAATCCTTTTGTTGAACAAAAGTCACACGGCAATGATTATTTACA GATCCAAAATAGACTCAGGCTTCAGACATAAAAAATTTAACATTC[A/GJTCTAGTTCAGTGATTAGT
				CACAGAANTTAAACATCTGCCCAGATGTACACAATTTGGTAAAAACTACAGCTTCTCTCTC
19576a	113 A G	:		5
				ATACACAGGCCACAATTGCAGGATGGAAAGGCAGTGGGCACTTGGAAGTGACTACACATGGCAATA
Wi-	((GGGAATA[A/C]TACTACACTAAGCCTACACTGTACTGTGAGAGTCATGGTGGAACAAGGCCACAGGC ACTGGAAGAAATGTGATGATGATGTGTGTGTTCAGANTTCTAAGGCCCAGGAT
Z10904				AAACCCAGAATTTTAGGTACTTTTGTATTATGAGGAACTCACTATACTAGGAAGCAACTTATGAGTG
1941				TGTAAATATTTGATCTAGCAGCAACTTTCCACTGATCCTGGCAGGTGACAGCTCTCAGTGAACAGCGC
m- 21574a	235 C T	:	•	GGGCAGGCCAGGGAACTTACTGCCTACTTCCT[C/T]GTCTGTCAGGTGGGA
				TGACTGCCAAGATTTAGGCCCCAACTTAGGAGCAAGGGTCACCTCTAACCTTTCAGGAAGTCTTGGGT GTGACCCACTGCATAAATGGATTTCACCATANTATTTAACAGACTCAAAGTGTACATACAAGCTTG
Wi-	15.1 -	ļ		TTTCATAAATAAGGGA[T/A]TTCAATCAAGATCCATGGAATGATGCAGGTTTAACATGTGTTCTCAGCTTTGCTTTCTAAATATGGCAACAGCACAGCAAGTC
	-			TGTCTTTAACCTCAAAAGTCCAAATAAACATATAGACATTTTGANTATAGCTATC(G/A)TTTAACA
-iwi				TITACTGTGTGTGGGTTTGTTGGGACTGAACATTAACCATACGTGTATTTCTAAGGTACTAGGGAGTT
21614b	55 GA	-	3	GGAACAGCTACTACGGGTCAATGGTATTTTGGGCAGTTGGCTGTGTGTG
				GACCGAGAAAAACTGCAAGGCATATGATGTTTGTCGAAGTATCACATGACTATTCAAGGCTTATAGA
				GAAACTTGCAAAAAAGTACAAAGGATGGCTATTTTFAAATTTCATACATATTAAGATAAGGATGGAACACAATAGGCTATAGAATGAAT
WI-)- U			TATTCTATATTGGGCCAAAGGGAAAAGGTAGGATGGGTACTGTGGAAACGGA
001017	5	•		

			TGTCATCTCATTCTGGAGAATCATAGATGTGGCAGAAATACATATTCTTGAAGAAAAAAAA
			CACTCTGTTCTCTACAGATCCGTGCTTTGGGAATTACAGGAACATAAAAGGATATAATGGATGG
WI-21981	61 T A		ATTACTITITACATGTGGACAATCTAGTTGTAGGCGTTTAAGGTTAAATI I GG
			TCCCAACTAGCCTCTCAGTATTTAGATGAGGATAGAACAGATACGGTGTAACACGCCTCTCCACTGCT
			TACTGTGTGTGTGTACCAAGAAGGAAAAGCAGACTGGGAATGCAAGGAGAAGCCAGGGTCTGTTTC
WI-21660	120 CT	•	AGGAGGTCACAGC
			TGGAAAGTAGCCCTTCTGGACAGAAAGAATATTTGTGGTCCATGTGGTTTGAGTCTGTTAAGAAGGA
	-		CACTAAGGCACATGGCTGGTGATCTTTGCGTCATAGACACGGGTGAGCTCATGG1GGAAC1CC11
			GTCTGTAGGTTTCCAGGGCTGGGCACAGAGGTGAGGGCAGAATNITGGGGGGTCCCAGTGGATCTCCCAGTGGATCTCCCAGTGGATCTCCCAGTGGATCTCCCCAGTGGATCTCCCCAGTGGATCCCCAGTGGATCTCCCCCAGTGGATCTCCCCCAGTGGATCCCCCAGTGGATCCCCCCAGTGGATCCCCCAGTGGATCCCCCCAGTGGATCCCCCCAGTGGATCCCCCCAGTGGATCCCCCCAGTGGATCCCCCAGTGGATCCCCCCAGTGGATCCCCCCAGTGGATCCCCCCAGTGGATCCCCCCAGTGGATCCCCCAGTGGATCCCCCCAGTGGATCCCCCCAGTGGATCCCCCCAGTGGATCCCCCCAGTGGATCCCCCAGTGGATCCCCCCAGTGGATCCCCCCAGTGGATCCCCCCAGTGGATCCCCCCAGTGGATCCCCCAGTGGATCCCCCCAGTGGATCCCCCCAGTGGATCCCCCCAGTGGATCCCCCCAGTGGATCCCCCAGTGGATCCCCCCAGTGATCCCCCCAGTGATCCCCCCAGTGATCCCCCCAGTGATCCCCCCAGTGATCCCCCCAGTGATCCCCCCAGTGATCCCCCAGTGATCCCCCAGTGATCCCCCCAGTGATCCCCCAGTGATCCCCCAGTGATCCCCCAGTGATCCCCCAGTGATCCCCCAGTGATCCCCCAGTGATCCCCCAGTGATCCCCCAGTGATCCCCCAGTGATCCCCCAGTGATCCCCCAGTATCCCCCAGTATCCCCCAGTGATCCCCCAGTGATCCCCAGTATCCCCCAGTATCCCCCAGTATCCCCCAGTATCCCCCAGTATCCCCAGTATCCCCAGTATCCCCAGTATCCCCAGTATCCCCAGTATCCCCAGTATCCCCAGTATCCCCAGTATCCCCAGTATCCCCAGTATCCCCAGTATCCCCAGTATCCCCAGTATCCCAGTATCCCCAGTATCCCAGTATCCCAGTATCCCAGTATCCCAGTATCCCAGTATCCCAGTATCCCAGTATCCCAGTATCCCAGTATCCCAGTATCCCAGTATCCAGTATCCAGTATCCAGTATCCAGTATCCCAGTATCAGTATCCAGTATCCAGTATCA
19105c	211 CT	•	ACAACTTC CTTTCCAGGGCAGGATTTCCACCCAGGGCCCAGGGTGCCCG
			TGGAAAGTAGCCCTTCTGGACAGAAAAAATATTĮT/CJGTGGTCCATGTGGGTTTGAGTCTGTTAAGAA
			GGACACTAAGGCACATGGCTGGTGATCTTTGCGTCATAGACACGGGTGAGCTCATGGTGGAACTCCTC
-W			CTTGTCTGTAGGTTTCCAGGGCTGGGCACAGAGGTGAGGGCAGAATNTTGGGGGGTCCCAGTGGATCTC
19105a	33 T C	:	CCCACAACTTCCTCCAGGGCAGGATTTCCACCCAGGGCCCAGGGTGCCCCG
Ä			CAAACCTAGTCACTCTACTGATGCAAATGATTTGGAGGTGTCTTCCTAGCTTTACAATAAGNGGAGG
21760c	81 C A	•	GACCTCTGACTGCACTCTCTCTCAGTTTCAGGGCA
-iA			CAAACCTAGTCACTCTACTGATGCAAATGATTTGG[A/G]GGTGTCTTCCTAGCTTTACAATAAGNGG
21760a	35 A G		AGGGACCTCTGACTGCACCTCTGTCTCAGTTTCAGGGCA
			TCTGCCATATTGTTCCCAGCACCACTATTACTGTTATTATTTCTCTTTGAGGAAAACCAGGNATTAAG
			AAATCTGGTTTGAATTTCCATGATGCCTAACTCTATGGTTAAAAATCCTTTTCCTTACCAAAAGGA
<u>×</u>		-	ACTTCTTAATCACCAGAGAAACAGAGGGAAGACTGAGATATGTTTGCAGAAATTTATCTCTAC 1/C
21569b	198 T C	:	AGAGACAATTCATAGTTCATAATCTTTCAGGGTTGTGCTTTACTTGGGGGGGC
			CCAACATGCAACATAGTCTTCATTCTTAAAAAGTACATAGTAAAGGTATGAAAAACATTTGTATTCA
		_	GAGAA[T/G]TCTAAGACAAATGGTCAAATATTCAAATGGCCTGGCACTAGTGGTAATTCCAGGAC
- -			AAACAGCATGAGAAAAGGCCGGGAGACAGTAATAAATACGTGCCCATTGCAATGAGTTACCCAATC
20934a	72 T G	•	AAGCCCTTTTACCTCCTTAAGATGGCAGATTAGAAGACCCTNTTCCCCAGGAGA
			TTTCCATTITATTCAGCCGGGCCATCAGAACAATAGCATCTATACCTTCGAAACC[T/G]CCTCTAAAC
		**************************************	CTCTCCCAGGCAAAGAAGAAAAAGTGATCATATTGAATTCCTCAGAATGGTGGGATCICAAGACII
			TTTAGAAAGTGCTTATTAAGTATAAAGGCTTGAAATATAAATGATAAATGGTAGCCTTCTGGA
WI-21561	55 T G	•	AATAATTTTGTGTAATCTGTTTAAAAAGATTTTTGGATGCATTGTCCCCA

				AGCTTTGCTTGAAAATTTGGTACTTACTACCTTTGCAATTCTCTTTATTTA
				TTCCGTAAGTTATTGGGGTACAGGAGGTATTTGGTTATATAAGTTCTTTAGTGGCGATTTGTGTGT
-W				TTGGTGCACCCATTACCCAAGGAGTATACACTGCACCATACTCGGTCTTTTATCCCTCGCCC[T/G]C
21961c	200 T G	G	••	TCCCACTTTTCCCCTCAAGTCCCAAAGTCCATTGTATCATTCTTATGC
				AGCTITGCTTGAAAATTTGGTACTTACTACCTTTGCAATTCTCTTTATTTA
-				TTCC(G/A)TAAGTTATTGGGGTACAGGAGGTATTTGGTTATATAAGTTCTTTAGTGGCGATTTGTGTG
<u>×</u>				ATTITIGGIGCACCCATTACCCAAGGAGTATACACTGCACCATACTCGGTCTTTTATCCCTCGCCCTC
21961b	73 GA		•	TCCCACTTTTCCCCTCAAGTCCCAAAGTCCATTGTATCATTCTTATGC
				CCCACTTGGGTCTCTTTCAAGTGAAT[1/G]TTCCTTTCGTTCCTGTTCTAAAGCCTTTTAAAATGAACT
				TCCATTCCTGTTCTGAAACTTGCCTTAGTCTGTTTTTCTGCTTCATGCCCCTCAGTCGAATTCTTTCT
				CTGAGGCGCCAAGGACTGAAGTTGCTGTGGACCTGTAGGGGTTCGACGCCGGTAACTCAGGGTAACTC
WI-21956	26TG	G	•	CTATCTCTTCCACCGGTAACAGGGGGTTACATTATGGGGTCCAGGTT
				CAAACATACATTATGGCTGCCTTTATTTAAGAAATGTTTACTGAGAATCTGTACTGTAACAACATAT
				TTTTGTTAGAAGCATGAGTGAGAGTGTGTGTGTGTGTGCGCGCGC
				GGATTGCAATGGG[G/A]AACAGGATAAAAAGGTATAAAAACTTGGTCCGAAATCTTTGCTTATTAAC
WI-21966	148 G	A	***	CTTGGCCCTGCTCCACAATGTTTCTACATTCATAAGAGAGGTAGA
				TATACTGGTTTTTGGTTACATGGATGAATTGTCTAATGGTGAAGTCTGAGATTTTAGTGTACCCALCA
-i×				CCTGAGTAGTGTACATTGTACCCAACTTGTAGGCTTTTTATCCCTTACCCTACCTTCCACCTCCCCAT
21930c	146 GC	0	i	TTTGAGTCT[G/C]CATAGTCCATTATATCACTCTGTATGCCTTTGCATACCCATAGCTTAACTCCC
				GCTCTAGTGAAGAAATTCAGGACGCGGTCTTCAGAGCAGAGGGCTTGGTTCAAGTCCCTGTTCTGCCA
-iw				CTTACTAACTGCATGACCTTGAGCAAGCCACTTAATTTCTCTGCTCCTTCTCTGTGAAATGGGTACAA
21139a	165 T	:	•	TGTGGGTCAGCAGTAAAGGAACTAATACA[T/C]GTACAGCACTTCAGCACAAAGCCTGGGGCACACAG
				CACTGCATGGAAATACACAGGTAACATTTTAAACAGTGGGGACAAAATTTTAAGTACGTGGCCAGC
				TGTTGGTTGTCTTGTGGTCATTAAAGACAATGTTAAGANTCAGGAGTACTTAAGTGCTAGTGGTTACA
×.			 .	AATTTTGTTCTCTTCAGTTTTCATTAAGTAAATTCTAATAGATGATATACATATTACTGCAGATAAA
20317b	217 GT			ACCATCATCAGAAA[G/T]TATTAAATTAATTGCATATTTTGAGGCTACTCT
				CAGGACTTGGTTTGCTGTCCCAACTGCACATAAATGTCCCTTTTTTGTTTG
				TTTTCCTTTTTGCATAAGAAATATGTCCATTTAGTCCAGAGGCTCTTGCTTTATCCGGATGACGGAGG
W.				GTACACGGGGGGTCCGCTCAGTTCCCGCCGAAGGACGTATTCJG/AJCTGAACTGGGACGAGTCTACTC
22082e	179 GA	-		CTCCCCCACAGGAGCCCACGATTTCAAATCCTCTTTGCTGCAACCTCT

			Ö	CAGGACTTGGTTTGCTGTCCCAACTGCACTAAATGTCCCTTTTTTGTTTG
			<u> </u>	/IJGTTTTCCTTTTTGCATAAGAAATATGTCCATTTAGTCCAGAGGCTCTTGCTTATCCGGAATATGTCCATTTAGTCCAGAGGCTCTTGCTTTAGTCCAGAGGCTCTTGCTTTAGTCCAGAGGCTCTTGCTTTTGCATATGTCCATTTAGTCCAGAGGCTCTTGCTTTAGTCCAGAGGCTCTTGCTTTTGCATATGTCCATTTAGTCCAGAGGCTCTTTGCTTTTGCATATGTCCAGAGGCTCTTTGCTTTTGCATATGTCCATTTAGTCCAGAGGCTCTTTGCTTTTGCATATGTCCAGAGGCTCTTTTGCTTTTTGCATATGTCCAGAGGCTCTTTTGCTTTTTTTT
-ix			¥_	AGGGTACACGGGGCGTCCGCTCAGTTCCCGCCGAAGGACGTATTCGCTGAACTGGGACGAGTCTACTC
22082b	67 CT		Ö	CTCCCCCACAGGAGCCCACGATTTCAAATCCTCTTTGCTGCAACCTCT
			₹	AACACAAACTCCATGCTTTCAAGATTCCCACACCCCAGATACTAAGACATATTAAAATTTACAGCAAT
			F	TAAAACAGTGTAGTTTGGTACAATAACACATATAGCAATGATACAAATTAGGGGAAAAAAACCCTGG
			<u> </u>	GCTTCT[A/G]TAACAAGTGAGTATACATTAAAGACAGTATTGCAGAATGGCTTCAGGATTAATTTGA
WI-20993	139 A G	•••	⊥	TTAATTTAGAGAGCCTATTTCAGGTCTTCCTAGCTCATCCACACACA
			4	AAGCGATTTTATTAAATTGATTTGGACATACTGTAGGTCAAATAATATTTTCTGAAGATAACAATTA
		•	F	TGGACTTTAAAGCTCGACATAAAATTAGTAGCTTCAAAAGGGTTAGTCATATTCCCCA[A/G]CAACA
-ix			9	GCATGATAAAATAATTCAACTATGTAGAAATATAGAACTCTAGGACTAGCTGGAAACTCGGAAATC
21723b	125 A G		TA	
			₹	AAGCGATTTTATTAAATTGATTTGGACATACTGTAGGTCAAATAATATTTTCTGAAGATAACAATTA
			F	TGGACTTTAAAGCTC[G/AJACATAAAATTAGTAGCTTCAAAAGGGTTAGTCATATTCCCCCAACAACA
<u>*</u>	· · ·		<u> </u>	GCATGATAAAATAATTCAACTATGTAGAAATATAGAACTCTAGGACTAGCTGGAAACTCGGAAATC
21723a	82 GA	1	ПА	
			0	CAACAGATGCTTGAGCCAAAAAGCAAACATAGGCAGAAATACAATTGAGAATATCTTCATGTTC
-			<u> </u>	AACCTTTAATCTGACTTGCCTTTTACTATCCTT[1/G]CCCCATTTCTTCTAATCTCTTTTGCCTTTGCAA
00400	F		 - <	TATATTACCTTCTAGGTATCACCTCATCCTATAGGAAIGCCIICIAGIIIAAIGICCIGCCCAAACA ATACTAACCCATTGAAGGATAACTATGGAAACCTTTAAATGGGACAGTGGG
VVI-22132	5	:		
			<u> </u>	TGACAGATCACACCACATTTTGTTTGTAACTTTTTCTCCTTCAAGAGTCACCTTAGCTTAAGCCAGAAA
	-		9 (GATTOTOTIAAAGAACACATAAAAAAAAAAAAAAAAAAAAAAAAAAA
wi- 21006a	106 A G	;	<u>, o</u>	CTGCTTCAGGAAAATAAACAGAAAGGTCCTAACTGCCCTAGGCCT
			O	CTGAGGCCTGCTCTAACTTCATNTGACGGAGCGAGTTTCCTGGCTTGGAAATAACTGAAAAGATTCAT
		_	_	TITICTCTTTGTGTACAAAGGATTCAAAATATTTTCACATCTTCCTTC
<u>¥</u>			0	CTIC/GJCAATACACACCAAAGCCAAGCGTAACTTGGCTGCCTCAGGAAGGCTGGGAGGAAGTGCCAG
21761b	138 C G	•	٩	ATGGTA
				AATGAAAATGCCACCCAGAGGTTAACAGCTTGCCATGCATG
				TTTAATACCAGTGTGCAGCTTTGATTCCTCCATGAAATTAAAGCTGTGTTGCTCACTTGTTTACATAA
×.			<u>U_</u>	CTCAGGCCACCCTGAAATATCTGCTAGTGGG[G/AJAATTTACAACCCACTGACCATCTCAGCTCAAA
21079c	166 GA	;		GCCAGATGACTATCACCTACACATCTGCCAGGGTAATAGGCATGGGCAAAT

				AATGAAAATGCCACCCAGAGGTTAACAGCTTGCCATGCATG
WI- 21079a	50 G	 	!	TAACTCAGGCCACCCTGAAATATCTGCTAGTGGGGAATHTACAACCCACHGACCATCTCAGGCAGGCAAATGCCCAGGAAATAGGCCAAAT
				TCTGTAGATTTTAGCCATGCCATATATTTAACTTTTAAGGAAAAG[T/G]TTATATAAACAGTCATTGCT
				TGGTAGAATCCAGTCTGTCAATAAGTTAGCTCTAACAGTTAACATTGAAGTCTTATACCTTATATTTA
Wi-	- 			AATGTTTAGCAATCTCTACTACTACAA ATAAA AAAA AAAA AAAAAAA TAAAAAAA TAAAAAAAA
201123				TGGAGTTAAGTGGGCTCTGCTATTCCCCCAAGAAGGACTCGGAAGATGTTGATTCCAGGGCAGAGT
				GAGGGGCAGACIA/GIGGATGAGGCTCTTCTGTAAAGTCCAACAGACGCTCACAGATGCTGGGAGGCT
				GGGGACTGCCAGGTTGGGAGCCTCACCCAGAGAGCCTCACTGCATTGACCCCACACCCACACCACTCACC
WI-21941	79 A	G	•	CAGCACACAGGCACAGGGCACACGCACACGNTGCACTCACCACGC
				AATGGCATCCCTGTCGATACCAAACATCTTCAGCAGCTCAGCCCTJGGCTTCCCCACTTCTTGGTACCC
×.				GGTTAACTGCCAGGNGGGTGACAGTGATGCCAGGGCTCGCCCACTACTGCACTGGACACAGGCTCACC
18916b	42 C	<u>T</u>	•	AATGCCACCTTCATA
				AATGGCATCCCTGTCGATACCAAACATCTTCAGCA[G/C]CTCAGCCGGCTTCCCACTTCTTGGTACCC
Wi-				GGTTAACTGCCAGGNGGGTGACAGTGATGCCAGGGCTCGCCCACTACTGCACTGGACACAGGCTCACC
18916a	35 G	C		AATGCCACCTTCATA
				TTCCCTTCTCCCCAAGAAGTGGGCAGAAAAGCTTTGTTAACCTCCTTTTACAGATGAAGAAAAAAAA
				GATCAGAGGTGCTAAGTGCTGTAGCCTAGTGCCAGGNCTTCTGGCCCCCAATTCTGGGTTCTCCCCCAAG
w.				CCCATGCTTCTTCCACTTTCTCACAATCTTTACTTCTTCCTCTGACCCTCACCACCACCACAAATIA/G
19828c	200 A	 G	:	JCTTTTAATTCTGGAAAAGAAACCCAGCTGCACACTGGGCACACTTGACCT
				CACAAGAGTCTGTACAACCTTAGGGACACCAGCCCTGGCCCTGCCCTTC/IJAGCTGCATGCCACCTTC
W.				ATATOCCACCCCATCCCCAGCCTCCTGCCCCGACACCCCAGGCTCCCTGCTCTGGTTGAAGTATTT
21863b	47 C)T	•••	CTCCAAGGCAGGAATGAGTCCTTGATCCAACCACAGCATCT
				TTGACCTAAAGCCTAGCATAAAATTAGCTAAGTAGAATGTTTCCAAAGATGCCGCCTCAGTAT
				CTCCCATCCCACATAATTTCTGTTTGATTTTGCCATTCACCCATAAAATGGTGGGATCTACCTCCCCT
WI-19860	51 C	:		CCTTGCAAATTTGAGCTGGNCCTCTGATCCTGTCAAGGATCTGAAGCC
				ACCCAGCTCCTCTTACCCTCTGGCTTTCAGTAGGCTTTGGCTAATGGCCANTGAAACTGCAGGGCAAG
-iw				AGGAGTGAGGGGCTJTACAGCATTTATTTCCCTCTTTCACTCCCTGTTAGCTTTGGTAGTGGCTGTAT
19889b	80 CT	⊥′.		TTCTCTACTGATAGTTCCTTGCCCACAGTCGTAACTATTGC

	-			
				TGTTGGTCTGAGAATTCACAGGCTTACTACAAGGAAGCTGAGAATTGCT
ķ				AGCTCCCGATCCCTCAATTTGCCATCTGTCTGACTQCGCGTCTTCCCGGGGCGTGGGGCGTGCTTGT
191c	172 CG			CAGGCAGGCGGGGGGAAGGAAGGAAGGAATCCAGGGTCTGTCT
				GCACCTGTAGGGTGTAGCTTCCATGGTTCTCCAAGGGGGCTGTACATTACCCTTAGGCTGACATAAACTAGAAGACGC
				ICCCI I GCGGGGG[CI] GCAAAAC I GCI I I GAGGAAA I IN ICCCCAGGAAGAAA I AAAAAAAAAAAAAAAAAAAAAA
20155a	81 CT		-	GTGCCCCAGGGTAAAAGTCTCTCTTCTGTCCAGTCCAGAGCAGAGACTTCTC
				AGCCATACAATGCATTGCAAAGAAACAAAGCAGCTGTACAGGAGTGGGGGACGCGTCAGTGTACAAT
		•		ACATTCATGTCCAGGATAAGGAGCAT/GJACACCAGGATTTATACACGGTGGCAGGGGCTATAGGCA
WI- 20270b	91 G			CGATGATACAAAATATAAAGTATATTTCCATCTATATAAATACACAGCTGGGGGTGGGGGGGG
	-			AGCCATACAATGCATTGCAAAGAAACAAAGCAGCTGTACAGGAGTGGGGACGCGG/AJTCAGTGTAC
				AATACATTCATGTCCAGGATAAGGAGCATACACCAGGATTTATACACGGTGGCAGCGGCTATAGGCA
<u>*</u>				CGATGATACAAAATATAAAGTATATTTCCATCTATATAAATACACAGCTGGGGGGGG
20270a	53 GA	-	•	GGGTGATCTTGTTTCCCCCCAGAGGGCCTGGGAGGCAGGGNGGGTGGTGGGGAA
				CCACTITICAATATTTTACAAAATGCTCACGCAGCAAATATGAAAAGCTTCAACACTTTCCCTTTGTA
				ACTTGCTGCAATAAATGCAACTTTAACAAACATACAAATTTCTTCTGTATCTTAAAAGTTGAA[T/C]
				TACTAATTITTATGATGTTACTCATATTITTATTCATATACTTTTAATGACATCATTGCCAATACATA
WI-20622	130 T C	:	:	CATTATTITCINTAACTITATTITACAATAAGCCAACATCTGTCATGCAG
			:	TTCCCACTCAAAACTCCCACCCCAACCTTCCTGGAAGGCAGGGCTAACAGGACCTCCTGCCTG
				TCACGACTGATTACTTTCAATCCCAGCTGCAATGCAAACTGAAACTCATTCTGTATATCACCACTCTA
W-				CAGGAGAGGTCTATTTCTGGGGCACCCAGAAGNTCAGCACACATACTGCTGGGA{C/T}CAGGGACTC
20768b	190 CT		•••	GTAATTCGCCTTGGTCCAACTCCTTCTATGGGGTTTAGCTGCCCTCATTCC
				TTCCCACTCAAAACTCCCACCCCAACCTTCCTGGAAGGCAGGGCTAACAGGACCTCCTGCCTG
				TCAJC/TJGACTGATTACTTTCAATCCCAGCTGCAATGCAAACTGAAACTCATTCTGTATATCACCACT
-ix				CTACAGGAGAGCTCTATTTCTGGGGCACCCAGAAGNTCAGCACACACATACTGCTGGGAACCAGGGACTC
20768a	71 CT			GTAATTCGCCTTGGTCCAACTCCTTCTATGGGGTTTAGCTGCCCTCATTCC
				TGTTTGCTTTGTGCCAGGTACTCTACTGCTTTACATAAATTATCTCATTCTGTCACATCTAACGGCAA
				CTAAGTATACGCTTACATCTGCTAGTGGCACCTAAAATAAGGATATTGTTGGTCATCTTTAAAGAAA
				TGTCTTAACATACCAAAG[A/T]AGTGGAATCAATAGAATAAAAATATTTAAGTCTTACAAAGCGTAC
WI-21909	153AT	<u>-</u>	•	GACACTAAAGTAATATAGGATACCACTAAATTTATATTTCTATGTATG

			TGTTGCTTTGGTTGTTTGCTTTCTGGAAACATATTGGAACACTTGTTTTTCATAAGGTGTCCTGACAGT
	(ACTOTGGTGCATTCATTTCATCTGCAAAAGCAACTGGCACAACCACCTCCTTGCCGGTGCAGCTCTGGGAAAAAAAA
WI-22202) H		CCAAGGATGAAATTTCCACATTTATTTTTTTTTATGTGAATAGAAATGGCAGTGAAGTGTCCTATGAAGCTTGAGAAATGGCAGTGAAGTGTCCTATGAAGCTTGAGGCGAGGAATGGCATGGCGCTGCGGTACCAGCCTGGACGTTGTGCTTCCAAAGGTACAAAAGGGTATGTGTGAAAAGGGTACAAAAGGGTAACAAAAGGGTAACAAAAGGGTAACAAAAGGGTAAAAAGGGTAAAAAAAGGGTAAAAAAAA
) F		GGGGAGCCATCATAGAAAAAACCCTCAGCCAGAAGTTAGGACATTGTGATTCTCAGCCACTAACGA GCTGTATGACCTTGGTCACTAGGCCTCTGCAGGCTCTGGTTG[I/C]ITCATTTGCAAAATAAAACCCA GACCGGGTCATCTTTCAGTTCCCTTCCAGCTCTATTATTATGATTTGCTCTTAGTCTTTATGAGCCA TATATCAGTTTACCAGTTCCCTGATGCAACTCCAATGATGAAAAGG
WI-22283			GACGTCATCTCTGAGGGCTCTGCCAGGTGGATTAGGTGAAGAGAGGTTTTATGGGCCTCTAAGCACCG
WI-	136 CT		CONTITICCAATCITCCTTCTTAGCCAGAACTTTGCGAGAGCCCCTTTNATTTCTCTTCCCTATTCC
WI-22292	53 A G		CCAGTGGAAGGGTTTACAGCCATAGTGAGGTTCCCCCATTGCTCAGTACCAGA(A/G)GTTTGAGTAC GGTCGTTTAAAAAATACTTATCTGACCACAGTGGAAA
70000 IW			ACCTTGCACACCTGCCATCCGGTGCCATCTCCTGGCTGGC
WI-CESSOI) <		GCCGTTCCAGTATTGATAATTTGTGTTTAATTTCTATACAGAAATGGTTCTTTCT
WI-22405	(4		TTTATGGCTCCTGAGTGCCTTCACCCAGCTACACTTTACCTTGTATCTATAAAAGTGTAATTTAGAGT AAATACATTGGCTGTAAAGTCG[AC]GATCAGGTGCTCTCCACCAAAAGCAAAACAAAACTGCTGA AAATGTGGCAAGGTTCTCAGTG
Wl- 22419b	; <u> </u>	:	CCCTTCTGGACAGTTTGCTTTATGTGTTCAGACAATCAAGGNTCGCCTTCCAGGCACAGACCCAGTGCTT/CCTGGATGGCTGTGTGTGAGCATGACATGA
, ,			ATTITICCCTTTCTGTGTTTCGTATTTCCCCTTTTTGTCAGTAAATNAGCAATACACTGA[T/CJTGGAA ATCTGCATGATTAAATAACATTAACAAGTTCATAAACACACCCCATATCAGAGTATAAAGCAAGAGAGATTAAAGGTATCCCTCAAAATTGCACATTTCCCTCAAATTGCACATTTCCCTCAAATTAGGTATCCCTCAAAATTGCACATTCTCCTCCTAGTT
21342d	59 T C		

, in				CATACCCTTITAGGTGCCCACATTGATCTTAGTTAACAGTCTTGTAGTTCCCTCTTTAGGCTTCAAGA TAATTGTGATTTCATCGCACCCAGATACTTCCAAGTGGAGCCAGGCCTCAGACTGTTCTCAGTCACT GCTCTCCCACACACACACATTGCCTGTGCTTCCTACCCCAGCAGCTGTCTAGTGAGTG
.63b	154 A			GA
				CATACCCTTTTAGGTGCCCACATTGATCTTAGTTAACAGTCTTGTAGTTCCCTCTTTAGGCTTCAAGAATGTGATTGTGATTCATCGCACCCAGATACTTCCAAGTGGAGCCAGGCCTCAGACTGTTCTCAGTCAG
W.				T/C]GCTCTCCCACAGCTGATTACAGACATTGCCTGTGCTTCCTACCCCAGCAGCTGTCTAGTGCACTT
21763a	135 T	·		
		•		CAGTCCATTTGAGTCCCCAGTCGAGGGTGCATTCTTCCTTTATCTTGCTTAAGCCACTTGGGTA(A/C)
		-		TOCATTOCAGCTCTGCACCTTCTCCAGTTTTCTCATGTCAGAAGTCCCTGGAGGGAG
WI-22440	64 A C	c		AAAT
				CAATGAATGTTGTGGCATATGATTTNCCATTGTGTGACAATTTATTAGCTGGCATCCGAATACAGTAC
WI-22449	74 T	·		TTCTTT[T/C]GAAAAATACACAATGGGAACTGACA
				CAGGTTCCACCAGAGGCTTTTATTTCAGCCACTCAGGACCCTGGCTTTCTGCTCCAAGGCACTGAACA
				CAGTCAGGCTCTTCTAAACACTGGCAGGGACCTCCCCCACAGCQAAGJCCCCCACAGGGTTCTCTGTT
<u>w</u>				TCCCAAGTCCTGATGGATTCAGGCAAGACCTTCACACATTCACCCACTACCTGCTGGAGAGGAGGGTC
21965a	112 A (: 5		ATGAGGCAGCCTGTGGTGCCCAGCTCAGTGTGACACACTGCCAATGTGC
				CACCTGGCAGTTGAGTCAGATTGTAGGAAAATTAACCCCAGATGGGTCTACATTTTTNTTCAAGTTCA
-				AACCACATGGTTTCCTAGTCAGAAAGTCTCATGGACTTTCTTCAAGGGGTGAGGAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
WI-	7		-	GACCICCIAAAIGIGGCIIIIACCAAIIACAGGCIACAGIIGAAIGCAGGCAG
\dagger	اد			SACATATA ACT TATA ACT CATACATOR CONTRACTOR C
IWI.				AGCTTTTACAACAAAGGGAGGGTTTAATAGTAACTTGGTGGCACATACAACATGCATTGAATACTGTGTAT
22374a	149 T			TATTCAGTAACTAAA[T/C]AGGNTCCTGCATCATTCTCTTCACA
				ACTTGTCTTCAGGCAGGCATTTCTGGGATCTAAACTAGAAATCCTTGAAAACAAATAGTACCAGCCA
-iw	-			CTTTGAGGAATGTGCATTCACTGTAGTGGGTTATTATGGGGTCTCTGCCTCCTGGCTGTGTTATG[C/T]
22250b	132 CT	•••		GGANCCAGGAGTGGAGAGCCGTGGAAATAGACAGGGGAG
				ACTTGTCTTCAGGCAGGCATTTCTGGGATCTAAACTAGAAATCCTTGAAAACAAATAGTACCAGCCA
-ix				CTTTGAGGAATGTGCATTCACT[G/AJTAGTGGGTTATTATGGGGGTCTCTGCCTCCTGGCTGTGTTATGC
22250a	හ ල	Α		GGANCCAGGAGTGGAGGCCGTGGAAATAGACAGGGGAG
				GCAGCCATCCTCCTCCCAACACCTCCCAGGCCACCTGGGGGCCAGAGCACCTCATGCCCAGCAGCAC
				CTACGTGGCCCGAGTACGGACCCGCCTGGCCCCAGGTTCTCGGCTCTCAGGACGTCCCCAGGAGTGGA
Ė		(GOCCAGAGGTTTGCTGGGACTCCCAGGGGGATGAGGCCCAGGCCCAGAACCTGGGCJAGTGT
04932-2b	192 GC	::		TTTGACGGGGCCCCGTGCTCAGCTGCTCCTGGGAGGGAAGGGAAGGGAAGGGAAGGGAAGGGAAGGGAAGGGAAGGGAAGGGAAGGGAAGGGAAGGGAAGGGAAGGGAAGGGAAGGGAAGGGAAGGAAGGGAAGGGAAGGGAAGGGAAGGGAAGGGAAGGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGAAGGAAGAAGGAAGAAGAAGAAGAAGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAA

				GCAGCCATCCTCCCAACACCTCCCAGGCCACCTGGGGCCAGAGCACCTCATGCCCAGCAGCAC
				CTACETGECCCGAGTACGGACCCGCCTGGCCCCAGGTTCTCGGCTCTCAGGACGTCCCAGGACGTGGA
UTR- 04932-2a 1	149 CT	<u> </u>	ì	GCCCAGAGGITTG[C/T]TGGGACTCCCAGGGGATGAGGCCCAGGCCCAGAACCTGGAGTGCTTCCTTTGACGGGGGGTTCAGGAGGGTTCAGGGAGGG
				GTGAGGAAGATGGACCTGGACAGACAGTCAGCTCCACACCTTGCGCTGAGCAGCTGTGATTGTGCCA CGGGAGCATGAGCCCTTTCCCCACGGCCCTTGCCACTGTCTCTGGCCCTCTCTGATCATGACAGG
				TTTGCACCAGCCTCGAGTCTCCCATGTTGTAGTACATTCTCCAAGATGCAGCCCAGGAGCCTCTCTGA
stFIBBb 4	412 G C			AGGACCAGTCTGGTTACGATGGTCTGAGCTTCCTTAGAACCTTCCATGGTTT
				GTGAGGAAGATGGACCTGGACAGACAGTCAGCTCCACACTTGCGCTGAGCAGCTGTGTGATCATGCCAGG
				TTTGCACCAGCCTCGAGTCTCCCATGTTGTAGTACATTCTCCAAGATGCAGCCCAGGAGCCTCTGA
stFIBBa	341 T C	•		AGGACCAGTCTGGTTACGATGGTCTGAGCTTCCTTAGAACCTTCCATGGTT
				GTCACAAGAGGCAGCGCTCTCGGGACGTCTCCACCATGGCCTGGGGCTCTGCTGCTCACTTCJCTC
				CTCACTCAGGACACAGGTGACGCCCTCCAGGGAAGGGGGTCTTGGGGAACCTCTGGGCTGATCCTTGGTC
stIGLV2	61 T C	•		TCCTGCTCCTCAGGCTCACCGGGGCCCAGGCTCACTGGCATGT
				GTTCAGGCTCATCTTGAACTCCTGGTGTCAAGCGATCCTCCCACCTCGACCTCCCAGGGTGCTGGGAT
stSG1001				TA[T/C]AGGCATGAGCCCCACACCTGGACACAAAATACATTATATATCTCTAAAGTATAGGATTACT
70	70 T C	•		TTAAGAGAAGGAAACTAAAAGTATGATGGCTTACTTTCTAATCC
				GTTCAGGCTCATCTTGAACTCCTGGTGTCAAGCJG/AJATCCTCCCACCTCGACCTCCCAGGGTGCTGG
stSG1001				GATTATAGGCATGAGCCCCCACACCTGGACACAAAATACATTATATACTCTAAAGTATAGGATTACT
7a	33 GA	1		II AAGAGAAAGI AAAAGI AI GAAAGI AGI II O MAI CO
stSG1002	63 A T	•	<u>!</u>	TAATGATAATTAGGGCATTCTTCCCACACGAAGATGACACAATTGACCCAATATCATTGAGGC[A/T] AACAGTTTGGGCTGTTTTCCAGTAGTATGACAGTGA
				GTGGAGAAAGATCGTCTTCCTCCCCCATGACCGGCGCTTCCCGCGGGCCACCTGTGCGTTTTCC
stSG1009				ACCCCGAGACGGCCTTTGTAGGGACCCACTGCCCACTCCGCTGCTGTGCGCTGGGTTCCGCCTAG
9	36 G C			GGCTCGAGTGTTTAAG
				TAGGCTTAAAQCTGGAATCTACAAGGCCAAAAGTCCCTCCCTGCCTGAGGGCAGTACCCTCCATTGGGC
stSG1011				ACAGTCCAGACCCAAGTCAAAGATGCCCCATTCCTTGCG[C/A]CTCAGCCCTCAGTTCCTTCATTTCC
8	107 CA	-		ACCAGGCCGTGCCTTGTTTGAGTTTTTCCTCCCAGTGAG
stSG1012		-		TAGTAGGTAAGAAAAGCAAAGGAGGATTGCTTATGCGATGACTGTTTACAGTGGTGTCAGACTATGC
0	89 T C			CGTGTTCACGAACACTTTAATA[T/C]GTTGTTGTAATCTGATTTTATCCTCGTCTTACAAATG
stSG1017				TTGAAGCAATATTGTCTAGCACTCTGCTGGACATTAAGTCCG[C/T]GGGAGGAGAAGTGAACAGGAA
8	42 CT			TCGATTCTTTGTCTTTTAACTGCCCTTAGTTAGGAGATGTTAAAATACTTGGC

stSG1019	6			GGAACAATACTACCTAAGGACAAAATACTATTAAAAAAAA
2	000	<u> </u>		AAGCTAACTTAAGTGAATGGTGCCACTCAAAGGTCTTTCCGAGGGAAGCTCAGTCCTGGCTTGCGAG
stSG1020	() ()		1	AGECAGCETTGGTCACCTCATAACGGGGCTCCAAGCTAAGGCGTCAAGGAAGCAGTCCCACTGCTTCT
stSG1020	2			TOTTITICICITITICACTCTCAGTCACCATGATTCAAATAAACTAATTCTCCTTAAGATCCCACTTTAT
9 b	75 A G	9	•	TTTTA(A/G)CTCCAATAAATGTAATTATCAGCTGCTGAATT
stSG1020	7	ŀ		TCTTTTTCTCTTTTCACTCTCAGTCACCATGATT[C/T]AAATAAACTAATTCTCCTTAAGATCCCACT TTATTTTTAACTCCAATAAATGTAATTATCAGCTGCTGAATT
stSG1021) 			TACTAGACATGCAAAATGAGAAGATTACA[T/C]GTGAATATTTAAAGAAGTTATATTTGTTTGACAT
8	29 T	o	•	AATATGCATTGTACCCGGGCATAATAAAGTTAAAAGCCAGTTATTCTGA
				ATAGGTTTCAGGAACAAAATCATTAAATGGAAAAATGAGAAGAATCTTTATTTTGGACCAATTTT
stSG1025	108 4 0			AGGCACT LAAGAGTH TOTH TOTH TOCK THE COOK TO THE CONTROLL AND AGAAATTTCTCTTG
T C C	 _			CTGTATTAATTAAGAAGGCACTATTAATGAGGGACGGAAAAATCTACCTGTACACAAAATTCTGTAC
0	123 A		i	GAACTGAGTTATTGGAC
				TITITIGITAAACCAACCACCCTGAAAGTTTCCACATGTGAAATATAGATACAACAAGAAAT
1				ATGTGGCCTCCCATGTACATTGGTTACCTATGTACAAGTATCCTATACACCAGTAAAACAGCAGGGCTT
EST 11023	166TA	A	- 1	TCCACTCGTGGATTTGATTCCTTTTTTGGAGGGGGGGTAATCCTGG
				GGGATGTATATTACAGATAACACACACTCACAAATATACCATCAGACATTGAAAACTAAGGCCATTCT
				GTGA[G/C]TTATTTTAAAACTTGGTGTTTTGCACATAATGATCTTAAAAAAAA
EST14096				ACCAAGATTCTCTTCTAAAATGAAAATTTAATGCAGGTACAGGATACTTTAGGGCAAAATTTAATGCAGGTACAGGATACTTTAGGAAAATTTAATGCAGGTACAGGATAACTTTAGAAAATTTAATGCAGGTACAGGATAACTTTAGAAATTTAATGCAGGTACAGGATAACTTTAGAAATTTAATGCAGGTACAGGATAACTTTAGAAAATTTAATGCAGGTACAGGATAACTTTAGAAAATTTAATGCAGGTACAGGATAACTTTAGAAAATTTAATGCAGGTACAGGATAACTTTAGAAAATTTAATGCAGGTACAAGAATTTAATGCAGGTACAAGAATTTAATGCAGGTACAAGAATTTAATGCAGGTAACAAAAAAAA
8	710	0	•	TGAAG
				TGCAAATTGTGAGAAGGCAGCAGCGGCCAACCCCTGGGACCTCATCTCTGTCTAGAATGTGAGGTCG
EST22113				CAGGGATGCTTAAGTCTTCCTCTGGCAGAGCCCGAGGTGCAGAGATGATICTTCTCTCAGAGACCCGAGGTGCAGAGATGATICTTCTTCTTGGCAGAGACCCGAGGTGCAGAGATGATICTTCTTCTTGGCAGAGACCCGAGGTGCAGAGATGATICTTCTTCTTTCTTTTCT
90	125 C	C A	:	TCTCAGGGTCGTGGAG
				TCAAGCATGTGTAAGGCACTGCCCCCCCCAGACCCTTCTAACTTCTGCACACTGGAAGGT[G/AJAAA
EST22555	16			CCTGGGGAGAGAGACACTCCCCTCCCTAGCTTCTACCTGGGCACCCTCCAAAGAIGAGCAIICAIC
7	60 GA	GA	:	TTGGAGACCAAAATAAAAAAGGACAAAAGACCAGGGCTICAGAG

EST22917				GTAAACCTTGCAAACGCCATGCTAAATGGAAGCCTGACTGA
9	74 CT	;	;	GTTAGCATCATCTGGTTGTGA
EST36458	-			CAAGTTAGAACCATGCATCAGCTTTTCATCCATGGTGTAACTTAACCCTCAGGCTGTCCTACTCA, A CAAGTTAGAACTTGGAGGCTCCAAGTCACTCTCCA
6 EST36745		1		GAGGGGGAACTTCAAAGAGGATTCCAACAGTGAAGCAGAATCATGGGGCAAAAGTCJATGG GGCCAGACTGAGGTTGGACCACACAAGCACTCCAAGCTGGGCCAATCCCAACCGCTGGTGAAGCCGC
8	S A G	:		TGTGACCATACCAAACCTATGCAATAAAAGAAAAGAAAA
				AACCTTTGCAATGCTATCATTTTTTCAGGTCTTTTTGAAGTGTGAAAAAGTTCATAGCATTTTGGA
STS	201			ATTTATGGTTTGAATAAAATACAAAATGTGTGTCTCCTGAGACACATTTATGAGACACATTTATGAGTGGTGCTCTAGTGGCCCAAT
13/4100				TETGACCATACCAAACCTATGCAATAAAAGAAAAGAAAAAAAA
				AACCTTTGCAATGCTATCATTTTTCAGGTCTTTTTGAAGTGTGAAAAAAAA
डाङ				ATTTAT[G/T]GTTTGAATAAAATACAAAA1G1G41C1CC1G4GACACA117A1AACAAAA1CCCCAATAATGTGAGTGGTGCTCTAGTGGCCCAAT
R37410b	139 G L			VVCVVVVVVVV
				TGTGACCATACCAAACCTATGCAATAAAAGGAAAAGAAAAAATCCTCA[C/I]IIIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
STS				GGAATTTATGGTTTGAATAAAATACAAAATGTGATCTCCTGAGACACATTTATAAACATTGTGGG
R37410a	48 CT			ATGTATATIGIGAGIGGIGGIGCICIAGIGGCCAAAI
STS				TATCGTGGGAAGTTCCAACCTCATACTTATGCTGCTTTTCTACTTGCTACTAGCAAGAACCTTCCTACTCTCCACAAACCTGAA
R42778	74 CT			GGC IC(VIII) AAAI I GI GC I GC I GC I GC I GC I GC I
				CAATCTGAAGAGATGCATAGCGGATTGGTGGCTTTCAGCAGCTGTGGGGGAGGTGGGGACTTAGATAICATAIC
Ė				ACTECTAATCAGTATGGGGTTTCCTCCGGGGATGGTGAAAATGTTCCGGGGATGGTGAAAATGTTCGGGGGTTTCCTCGGGGATGGTGAAAATGTTCGGGGGGTTTCCTCGGGGGATGGTGAAAAAAAA
04350	125 C	5	•	AGGIAGCACGACACIGIGAGIACAAA
				GAAATAAACTAAAACTGCAAAGCAAATCACTGTTAATAAGAATTGTTCTTCTGTII[I/C]GACAGI G
stSG1026				AAGTGGGTGTGAGGGCATAGCAATGAACAGTGGAAACAATGAAAAAAAA
9	55 T		-	CTCCTCTGTGAAAATGTAT
stSG1028				GTATAATTCAGCATAAGCCAAAGCCTTTTTAAAATAACCAATACTATCATTTTAIGAAATCTITTAAGAGTTGAAATGAAA
2	70T(O		AGA[1/G]AAGCACAGIAGIACAAIAIIIAAGCAICICAAGICICACAGICICACAGICICACAGICICACAGICACACAGICACAGICACAGICACAGICACAGICACAGICACAGICACAGICACAGICACAGICACAGICACAGICACAGICACAGICA
				CACTITAGATATGAGGAAAATGGTTTTAATGGACACAAAGGAGTCAGCCACGTTGGAACCAACATAG
				TITCATACCACGTTGAAACCATGTGTTTGATATGCAAATAACAGCAAAIAAIIIIICACIICAGIIA
stSG1031				TCAATGCCAATGCATTGAAAGGCCCCAGAAATGAGAAAAGGATAACAAACIIIIGAIAAAAAGGI
	128 C A	Α	;	AGAATTICIGIGIG
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				TTTAAAGCTACATGTCTGAAAGAATGATGCTGCTGATTGAAATAAAGGAAGAAAGGATGCATTTCGT
				GCTCCAACCTGTCCTAGGAAGGCCTAGAACTCAAACACCAAACACCTCCAAACTGCTTCCACCTGTTCATCTGA
G1033				CTACTATGTCTTTCCCTGACTICTGCCTCTCCAGCTCTCTCCCCCCCCCC
1b	116 T C			CHAGGACOLOGICA CONTRACTOR CONTRAC
				TITAAAGCTACATGTCTGAAAGAATGATGCTGATIGAAATAAAGAAAGCATTCCTCTTTGG GCTCCAACCTGTCCTAGGAAGGCCTAGACCTCAAACACCAAATJCACCTCCATGCATTTCCTCTTTGG
etSG1033				CTACTATGTCTTTTCCCTGACTTCTGCCTCTCCAGCTCTCTGGGCTGCTGCTTCACTTTTCCCTGACTTCTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
	107 A T		•	CTTAGGACCCTCC
				ATTGGCAAATGGGAAAATGACACCAATCATTTGATTACAGAAAATGGTTTTATAAATCCICCICIUG
				AAATTATGTTCAGGCCCAGCATGGTAGCTTATGCCTGCAATCCCAGCACTTCGGGAAGGCCAAAAAAAA
stSG1243				AGGATCGCTTGAGCCCAGGAGTTCGACACCAGGCCAGCAIAGIAAGACCAAICICIGIIIIIII
	225 GA			TTTAAAAAAAAAATTCTGTTC[G/A]AAAGTATTICAGACCAAAAAGAAGGT
stSG1345				AACTGACGTATCACAGGGGCAAGTATCTCTGTCATAAATTTGAACTAGAGTAAAAAAAA
٤	60 G A		:	TCACATTTTAGCATGGGCCAAAATTCAGGAGATGCCATGCAATGTCAGCATTACCCCT
37C + O O + O				AACTGACGTATCACAGGGGCAAGTATCTCTGTCATAAATTTGAACTAGTT1GC1[1/G]C11ACGCGC
StOG 1943	54 7 6	-	;	TCACATTITTAGCATGGGCCAAAATTCAGGAGATGCCATGCAATGTCCATAAATGGGGGCAAA
3				TTAATGTCATOCAGGGAGGGGGCCAGGGATGGAGGGGGGGGGG
				TGGGTGGGATTCACCACTTTCCCATGAAGAGGGGAGACTTGGTATTTIG[1/GJ]CAATCATGGCC
c+CG1385				GACAAAGGGTTTGTTGAACTTGACCTCGGGGGGGGATAGACATGGGTAIGGCCICIAAAAACAIGGC
	117 T G		!	OCAGCAGCTTCAGTCCCTTTCTCGTCG
	-			TCGTCTCCTTTCCAGTGCTTCTGCCAGAAGCATCCCCATGATGTTGTGACCGCACAGCACTTIGIGIC
640,0130	- C - C - C - C - C - C - C - C - C - C	_		[T/C]GCTTTGAGCACTTGCCACTCTGGCTGCTGCTGCCACTGATTGTGTACTGTTTGTGTACTGTTGTGTGTG
6010016	-			GATCTGGTTCCAGACAAGGCTGATTCAGAGACTCCACGTGGTCAAGGCTCTGTTGTTTGT
				TGGCTCCTCCACTTCCAGTTTGGCTTCTGTCCTCATT/CJAGTCTCTCTCCATGTGGCAACAAGAIGGC
				TACTGGTGGTCCCAGGTTCACGTCCTCTCAGCTTGGAAATCCAGCAAGAAGAAGAIGIUIUAUIUUUA
stSG1427	103 T C	•	•••	AAGTCCATAACTCAATCCTTGGGAAG
				CCCTGGAGTTTCTGAACATAGGAAGAATGCAAGTCATGTTAGGTCGAGGTCGAGGTCTAGCGAGGTCTAGCGTTCCTAGCGTCTAGGGAATGCAAGAGAGAG
				AATGTGGGAGAGGGAAATAAAGTTAGGCAACATTIAGCAAICAACAGAAGCCCTICCCTAGCAAGAACCCCTICCCTAGCAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGA
stSG1471	50 A G	:	i	GCA
				CAAAACCAAAATCCTTCCCACGATATATTACTATTTAGTCTAAG[1/C]111AA11CAAAGG11GAGA
stSG1483	44 T C	}		ATGACGAATTCAAGAATTTCTTTCATACATAAATTGCTTTCCTTAGTTCTTGCAGAGAGAG
				CACACCCACAAGTTTCATGCTAATGCCAAGTATCAACTCTTGAGGACAAAGGCAAAACCAGTGTGTGT
·				[C/G]AATGTGGAGGATGTCTGTTGCAGCTGTAGTTACTAATGCAGGAAAACCCAATGCAAAACCCAATGCAAAGAAAACCCAATGCAAGGAAAACCCAATGCAAGGAAAACCCAATGCAAGGAAAAACCCAATGCAAGGAAAAACCCAATGCAAGGAAAAACCCAATGCAAGGAAAAACCCAATGCAAGGAAAAACCCAATGCAAGGAAAAACCCAATGCAAGGAAAAACCCAATGCAAGGAAAAACCCAATGCAAGGAAAAACCCAATGCAAGGAAAAACCCAATGCAAGGAAAAACCCAAATGCAAGGAAAAACCCAAATGCAAGGAAAAACCCAAATGCAAGGAAAAAACCCAAATGCAAGGAAAAAACCCAAATGCAAGGAAAAAAACCCAAATGCAAGGAAAAAACCCAAATGCAAGGAAAAAACCCAAATGCAAGGAAAAAAAA
etSG1696	67 C G	i	!	AATGCCTGA

				TTGCAGACAACAATGGAAGCTTTAAAAACCTCTTCAACACAAAATGCTACCCCTAAAAATGAAAGAATTT
stSG1847				AGAGGTTAAATAAAACAAGTGAGAGACCIGAJI I I ACI I ACATOAGI I CGG I I I ATAAAACAGTGTGTGTGTGAAAACCAAATTAAAAATAAAT
Р	95 G	A		TCAAACACACTG
				TTGCAGACAACAATGGAAGCTTTAAAACCTCTTCAACAAAATGCTACC[C/A]CTAAAATGAAAGA
				ATTTAGAGGTTAAATAAAACAAGTGAGAGACCGTTTACTTAC
stSG1847	49 C		<u> </u>	TTCAAACACAACTG
stSG1897				CTTAATGCCCCTTCCTCCTTCTGCACAGAGACACAGATGGGTAACATAGAGGCATGGGAAGTGG
æ	83 A	්	•	AGGAGGACACAGGACTĮA/GJGCCCACCATCTCCTCCCGGGTCTCCCCAAGATGACT
	<u> </u>			TGTCTTGAGGTTTCAAATCTGAGATATCTATGGCAAGTTTATAAAAAGTACATTGATCAAGGTACAA
				TITITAACATTAATATACA[T/C]ATTCCATAATCTCATCTATTTAACATTAACACGGGCCTTTGT
stSG2022				TGTTATTTTTTCCCCTACAATATTTCCTGACTCTGTAGGGACAGTGGGCCTCAGTTGGGGGGTTGAC
ø	86 T	 O	•	<u></u>
	,			AAACGTTGTCCCAAAATTGTGTTCAGTTTCACAGTATAAAATAAGACTTCTGAAAAAAAGTTTACA ATTACATTATAAAAAAAAAA
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				TTGAGCAAACAATGATTCGCGAATTGGGCAGCTCCAACCAA
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				TTGAGCAAACAATGATTCGCGAATTGGGCAGCTCCAACCAA
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5		D		TTATTCCAGGGGACAAGCTGCACAAAGGAATGTTCTTCTATTTTAAACAAATGACTGCGTGTAC
				TGAATCTGACTGTGTGAAATAATCTCAGAATGGCAGCACCACTGGCATGGCGATGGTGCAGGTGGGT
stSG2141			-	GCAGTTCCCTGTGGTCTCTATTGCTTGAAGAGAAAG[A/G]AAGTTCCCTATTATTATATTAAGGC
q	173	A G	•	AGTITICAGAGCACTGGCATTCTTGTTTGCTCTG
				TTATTCCAGGGGACAAGCTGCACAAAGGAATGTTCTTCTATTTTAAACAAATGACTGCGTGTAC
				TGAATCTGACTGTGTGAAATAATCTCAGAATGGCAGCACCACTGG[C/TJATGGCGATGGTGCAGGTG
stSG2141				GGTGCAGTTCCCTGTGGTCTCTATTGCTTGAAGAGAAAGAA
ď	113	C T	;	AGTTITCAGAGCACTGGCATTCTTGTTTGCTCTG

				TGGGAAACAACCGGCTATAGTCTGAGTCATATTTTTAGACCGTGATTTC[A/G]AAAGAAACAA AA ATGTGGAATAGAAAGGAAACATCCATTACTGTATTTTCGATACTTGTGATGTTCCACAGACGAGGCTC
stSG2148	50 A	: 5		ATCAC
37100042	α			CTCAATGAGGACTCCATCAGCCAAGCGGTTTATATGGCAGATGAGCTGCTACAAATCTGTTGTGGCT C/TJGCCGCGTGACTCAGCTAATGCTACCGGGGTTGGAGCGCACACCGAGCCCAGCCAG
2000		-		CAAGTGGTGAAAGCTGGGATTTGAGCCTGATATTCACACTA(C/T)CTACATTCCCTCCAGTATAATA
stSG2189	41	1 10	*	GGAGCITTGCGAAC
				TGTTGATGACCATAGAGGATGCAAAAGCTCCGGGCTGGTTCTGTATGATGT/CJTTTATATTTATGTAT
				AATGTCTTACCTGATGATACCCAACATATTACTAGCCTTATAGATGAGGATGGAT
stSG2200	49	O	•••	GTCAAT
e1SG2243	85	 - 		CATTITCIGCCTCCTGCTTCCCAGIACTACCCCGTCCAGCAACTGCCTCTCGIAIAAAIAAGIAILAAA GATGTGGGAAAAAGGTTCAGCT
				TCAGTGATTGTAGGAGCTGGCTAAGTCATGTCTAAACTCTGTGAGGCAGGC
stSG2257	65/	O		CICTETCAGGAACTCTCGCCAAGCACTGGGCTGTCTCTCAGGCAGAATTTCTTCCT
				GTCATCAGCGTAGAGGTCACTGGTATAAACAAACAGTAGCTATATGATATTTGGGAACTATTTACA
				[A/G]TATGCTCCCATTGGGTTTTCCAAACTGATACAACCATGAGGTGAACACTTTCACTGTTTCACAG
stSG2306	67	A G		TTCCTCCAGAGA
				GAAAACTACCCACAGCATCATGTTAAAAGAAGAAGAGATGAAAGAAA
stSG2334	20	<u>ا</u>	•	AAAAAT/GTGCAGTGGGGGGGCTGTGTGGGGGGGGGGGGG
		C		AGAGCAGAATGGTGAATCAACAAGACCTCAAATTGTCTTGACTGCAGAAGTAACTGCTGTCAC[T/C]
81302533	20	- -		CAAGACTAAGAAGCCGCACCCGAGTGGTCCCACTCAAAAAGAGAGATTTCTGATTCTACCTCAAAATG
				CAGAAACCAIC/TJTACAGATTAAAAGAGAAACACACACACACACACTTTGAGAAACTCGCCCTTCCTC
stSG2465	92	C_T	•	ATCTTCAAAGTGTGGGGTATGCA
				TTGCAGGCTTGTATTCCACAATAACAAAGTCATGTATAGAGAATGTGAAATGATACTTGAAAACCAA
				GATATATAAAATATTGAAGTCATTTATGCCTTTTGATGACTGGGTTAAATATGCAAAGCAGCTAAAG
stSG2549	140 T	1 C	••	GAATATIT/CJTACACCACCCCCTTTTTAACT
				AATTGCCAAATGGAAAATTCCCAGAGGATTTTTAGACCAACTTTGCCCTGTTGCATTCCCAGTTTGGT
stSG2577				CCCAATATAGGCCTTCTGCAAGAAGAGATCAATGCCGAACCGAACTGTGAAAGCA[T/G]GAACAA1U
٩	123 T G	1 6	;	CCGGCCCAGATTAATTATT

stSG2577				AATTGCCAAATGGAAAATTCCCAGAGGATTTTTAGACCAACTTTGCCCTGTTGCATTCCCAGTTTGGT CCCAATATAGGCCTTCTGCAAGAAGAGATCAATGCCGAACCGAACTGTGAAAG[C/T]ATGAACAATC
æ	121 C		:	CCGGCCCAGATTAATTA
002030				ATCTCCTCGACTGCTTTAGTGGGGAAAGGAATCAATTATTATGAACTGTCCGGCCCC[G/AJAGTCACTCACCTTGAGCCGGACAAAAAAAAAAAAAAAA
SISCISTOR	0			AAACAAGCTTTGTCATTTTCCACTACATTTTGTTGTGCTTTTATATTAATATTTGCAAATGCTATAAT
\$1555.24 b	101T	::9		TTAATACTTATATTCCAATTGCTTGCATAATCA[T/G]TTTTTTAATCCTGGGGTGTTGAAAGAAC
				GTGGCCGATCTTTACTTTTCCAGAAAAGGCGGTAAATAAA
stSG2776				AJTATTGGCCCTTTTGGAGTTAGGCCCAGGACTTCAAACAAGGGACACTGCTGGCCAACCAA
B	65 G	3 A	:	ATATCCACTAATTCCCGAATATAGTAACCCIGICIIGICCGAAIG
				AAGGAAAGGTGGAGGAAGAAGGGAAGAATTACAATGGTTAGAAAAGAGCAACTAAAGATTATTIC
stSG2791				TATTATACTTCTGAACGGTAAACTAGCAATTTTAATAAATA
٩	109	GT	•	AAGCAGAAAGTGTAAAGCTATCTCCATTAGTGAAGAGATGAAGTGACAAAAACCAATCAG
				AAGGAAAGGTGGAGGGAAGAAGGGAAGAATTACAATGGTTAGAAAAGAGGAACTAAAGATTATTTC
stSG2791				TATTATACTTCTGAACGGTAAACTAGCAATTTTA[A/G]TAAAATATTGGGGTCCACTTAAATCTATTA
9	100 A	A G	1	AAGCAGAAAGTGTAAAGCTATCTCCATTAGTGAAGAGATGAAGTGACAAAAACCAATCAG
				CCGCAATTTTCAACACACATTCTATGAAAACTAAGGGTGGATCATGTACAAACAA
			· · · · · · · · · · · · · · · · · · ·	TCCCTCCCTCCAAAACAAA[C/T]GAACAAAATAAAGAAAGAAAACCCATGAAATGCCCAGG111A
stSG2826	85	CT		АТТТТТТСС
				ATGGGTGCATTGTAAAAGGCAAATTAAATACTTTTTCAGGCAGG
stSG2850	88	G A	į	TGTGTCCCAAGGGAGGCCCGAAJGGCTCACACATCCCATCAAATACTCCTCACATCCAAATACTCCACATCACATCCACATCCACATCACATCCACATCCACATCACATCCACATCACATCACATCACATCCACATCAT
				ATACTCACGGGGCTGAAGGGCAATGTGAAGAGTGACTGCAAGTCCTGGCATTTTCTGTGGTGTCAGC
stSG3031	7.1	T C	;	AAA[T/C]GCCCCTTTATTTAAATGATTCCAGACATCTGGGCAGCATAGCT
				GTCCCAACTCCTCTCTTAGAGAAAAACTGTGATTACCTCAACTTGAATATGAAACTGTGATTG
stSG3058	8	G A	•	AAAAAAGTCAAAAC[G/A]TGAAGAAGCATCAAAGCCAAAAAGGCAAAACTGGCTGAGGC
		1		CAGCATCTTCCAGAACATTCCTAGAACTGAACCATTCTTGTCACTATTGAAAAAAAA
		·		CAAATCCAAAATAATAAATGAACGTGC[T/G]GATAAACATTCTTCTTATGGTTCCAGCCCCTACTTT
stSG3092	94	⊤ ਫ਼	•	AGTT
	<u> </u>			AAGAAGTACTITGGTAGCTATTTAAATAAGAGGGGGGGGGG
stSG3230	95	A G		CATCTTTTAGTCAATTGTCAGTGGAGTC[A/G]GTGGGTGCTAAGTGTTCTGAACTGAAGTAG
				ACATCTCATACCCAGTAAGATGCAAGAAAGGAATATCTGAGAGCAAGCA
				CAGGIATGTGTAGAGGCCCAGTGGGGGTGCCACTTGGTGTTTCTACCACCCCTGCCATGATTAT
stSG3245	5 160 GC	<u>G</u> C	•	GCCCCAGIACCIACCIAGGAGGICACCIAGGICACCIAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG

				AGGTGAAATGAGTTACTAAATGTAGCATTTATTATAAGGAA[T/C]GCATTGTGAATAGTTTCTCAG
,				AGGACTGTTCAGTACAATGGAGGACAGCTTTTTCAGGGCAAATGGGATTTCTTGATAATGCTAA
stSG3265	42 T C-		:	ATCTGTCTTGTCAGCTGAATTTCTTGGGCTTTATGTGGCAGTGTGGGTAAAAA
09063349				TGTACTTACTGTGTCATCCTATCCATTCCCTTCCCTGAGCCTGGACTGCTCTTCCAAGGGAGGCGAGGCTAGGTAAATTAACCTTCAAAAGTTAACCAATGCTAAAATTAACCAATGCTAAAATAAAT
b b	141 CT-		;	GCATGAIC/TITGTAGATCCCCAAGTCCCTGACACATTTTCTTCTAGAAAACT
				TGTACTTACTGTGTCATCCTATCC/AGITTCCCTTCCCTGAGCCTGGACTGCTCTTCCAAGGGAGACT
stSG3269				AGGAGTGAAGGGAGGAGTCCTCCCAAAGTTACCCTTTAAGCTTGATAATTAGCTCCATAGCCATGCT
8	24 A G			AAAGCATGACTGTAGATCCCCAAGTCCCTGACACTTTTCTTCTAAGAAACT
				TTAACTCAAGAACTTTCAGTTACAGGAAGATTTATCTAATATTAAAATGACTAAATTACAAAAAGC
				ATAAAATGTTTGAAGCCATTTTTAAAGTTGTTTTGAAATCCATATTAGCACTCAGACTTCCCCA[C/T]
stSG3284	130 CT-		•	TCCCTAACTITIGTTAATTGCTGTAATGGGACATTTGTTGTTTTGATCTACCC
	-			GTCTCAAGTGAATCTGTAAATACATTTTTAAGTCTGACTTCAAATCGGTACATGAGGCTTAGACATA
stSG3292	- 1 A 66		;	CACATCATTGGACAAGTGACTTAAATATCTAA/AJJACAAATCAAATAGCATTTTCCTAACTTCAA
				TAAATGTCATATCTTTAGCTCTCACT[C/A]CCAGTGTATCCATTTTCCCCAGCCGTAGAGCTTTTCTG
				TITCTGTAGATTTGCCTGTCCTGGACATTTGATATAAATGGAGTTGCTGTATCATGTTCGACTTCTCTC
stSG3323	26 CA-	;	•	ACCTAGCATGATGTTTTCAAGACACATCCATGCTGTAGCATGCGTCAGTGCTTCATTCCTTTAA
				GATCCCCAGTATTATTITCTAAATTGAACTTGTTTGTGGAAATAAAAAATCTGAGGACCACTCAGAG
stSG3369	- TO 69	•••	:	GGIC/MATAAGGGAACCCTCTTTGTCTTAGTTCATAAGGACTTTCT
				CAAGACTGTAAGAACGTAGGCCTTGTGAGAGGAAGGATGCTCGAACTTGCCCAGGACTCAGG
				CTTCAGCTTCACAATCCCGAGGAAAGGAATGACATTTCCAAACTGTCACCTTTGTAGC[G/T]CTGGGT
stSG3398	125 GT-	:	:	CAAAGTCTAAAGAGACAAATAAATAGAGACT
				TCTTACTCTGTTAACTCAGTCTGGAGTAAAGGATGCAATCACG[A/G]CTCACTGTAGCCTGGACCTCC
stSG3416				TGGGTTCAAGTGATCCTTCCACCTCAGCCAACTGAGTAGCTGGCCTGCAGGACAAGTCACCATGCCTA
B	43 A G		**	CCTAAGTTTTTGTAGAGACAG
				GTAAAGACAAGGTTTTGCTATGTTGACCAGGCTGGTCTTGAACTCCTTGGCTTCAAGCGACCGTACCA
			w	CCTTGGCCTCCCAAGTTGCTGATATTACAGGTGTGAGCCACTGCCCCCCCC
				GTTGAAAATCATTCTGCTCTTTGCTGGGTAACACTGA[T/A]CAAGTTGCTTAACCTTTGTGAAACCAC
stSG3424	173 T A-	•	:	TTTCCTTATCTGTAACAAAATGGACAAACAGAACTTTTTCCTTTCCTCTC
				GTTCATGTTAAAGATTAGGAAAGCTGTGGATGTGAGGGGTCAGGTGATGTGATGGAGGCCTCACAGA
stSG3436	88 T A -		•••	ATGAGTGGCAGAGAGGCCCCT/AJGAAATAGCTTACTCTGTTTTCCTATC

stSG3463 103 CT stSG3491 b 71 GA stSG3523 33 CT		AAATAAACAAAATGCATACACAGCTCAATGGGTCAC(C/TJTGGAACAAACTTGCTTGACTATTAA
21 3 4 1 C G		
0 0 4 1 0 0 4		CAAGATACTTCATTGTCTCTAAGTAGTGCAGTGCTGGCAAATATTTCTCACGAACAAGGACGATTTG AAGA(G/A)GTGGAATTACTGTGCAAGGAGTACTTTACCTCCAAATAGCCTGCAATTAGCAGTCTGA
33 C		ACAATCTTCTAATCTTTTACTGGCACCTGTGGATTTCTATTAAACTCATTTATACTATTTTCTGTGATG ACAGAAAATAAGTTAAC
213 A	:	TAGCCATCTTACTCTAGTTCTTTTGGGTTTTA[C/T]GCATATATGTGTGTACAAACACACACACACCCCCCAAATTCCTCTAGGCATAAGTTTTATCTCTTACTGGTCTC
213 A		AGTACAAACACAGATTTAAAGAGCTCAGCAGTATTGACACGCTGGAAATTAATGGAGACATCCACTT ACTGGAAGTAAGGAGCTGGTAGCTACCTACACAGCTGCTACAAAAAACCAAAATACAGAATGGCTTC
		TGTGATACTGGCCTTGCTGAAACGCATCTCACTGTCATTCTATTGTTATATTGTTAAAATGAGCTTG TGCACCATTAGIA/GITCCTGCTGGGTGTTCTCAGTCCTTGCCATGAAGTATG
		GAAAAAGCTTAACATACGATCCATGTGCAAAACCCCAAAACAGGATCTACGAACTCTGGCATGATCCA
stSG3583 112 G A	•	CATGGCTACACATACCATGCTGGAAGTGCACATCCACAGGCAC[G/A]TAACATACACAGGTGTGT
stSG3586		CCTAGTAACATAGTGAGACCTCGTCTACTAAAAATTTAAAAAATCAGGTGTGGTGGTGGGCJACG CCTGTAGTCCCTACTTGGGAGGCTGAAGTAGGAGGACTGCTTGAACCCAGGAGATGGAGGCTACAGT
a 60 GC		GAGTTATGATGCCCCATTGCACTCCAGCTTGAGACTGTTTCAAAAA
- FCG3580 - FCG3580		ATATAGTGCTGGTAGCATTATAAACTCCTTTAAAAAGCAATCTGGCCATATCAAAGGCAAAAAAAGTGTATATACCACCTGGCACAAAAAAACCCCAATGA[T/C]CCTATTTCCAAGAATGTATCCAGATGATGAAAAAAAAAA
2		GAGAGATGAGCTATTTATTCTTTACTTAATGAAGATGTAAGAAATGATCTTCTGTTCTAAAAAAAA
a 70 A T	:	AAA(AT)TTTCTCTGATGTCTTTGACCCTGTAGGAAACACATTCAGTTTCTACACT
		CAGTGAGACTTCTCATTTTATAGCAAATACATTTTTGCAGCTTAAATTTTCTTGAATTCATATACGCT
stSG3619 78 A C	:	TCTGTCATTT[A/C]AACAAACTTCCAGAGAAACTGGGCTCTATATATATTAAG
		ACATATGTAACTGCCATTAGTAGCCATATTTAGGATGAGA[T/C]GGATTGAGAGGCATGAACGAGATGAGGGAAAGGGCCATTTGTCCAACATAATAATAATAATAATATCTGGGGAAACGGCCATTTGTCCAACAACAAAAAAAA
stSG3644 40 T C	P 0	GTGCCTACTA
		CTCATAATTAGATTGAGATTGTGCATTTTGGCAAGAATATATGATGATAACAATAATATGTCTTACT
stSG3646 70 G.A		GGI[G/A]ATATTAACTTTGATACTTGGTTAAGATGGTGTCTGCTAATTTTCTCCATTGTAGAGTCATT

stSG3646 b	55 A	9		CTCATAATTAGATTGAGATTGTGCATTTTGGCAAGAATATATGATGATAACAATA[A/G]TATGTTTTAGATGATATAACTTTGATACTTGGTTAAGATGGTGTCTGCTAATTTTCTCCATTGTAGAGATGTTTCTCTCTTTGTAGATGATCTCTCTTTGTA
stSG3646 a	43 A	1	ı	CTCATAATTAGATTGAGATTGTGCATTTTGGCAAGAATATATG AVIJTGATAACAATAATGTCTT ACTGGTGATATTAACTTTGATACTTGGTTAAGATGGTGTCTGCTAATTTTCTCCATTGTAGAGTCATT CTTCTCTTTGTA
stSG3693 b	85 A		•	ATTGITTCCCTGAACATTCCCGTGGTCTCCCTCTGAAAGCCGATGACCATCCAACCTGGACTCACCT GAAATATCCTACGAGGCJA/CJTCGCCCTCCGAGACTGACGATTATTAACCACCACACGGAAAAAGG
stSG3693 a	30 C	C_T	:	ATTGTTTCCCTGAACATTCCCGTGGTCTCC(C/TJTCTGAAAGCCGATGACCATCCAACCCTGGACTCA CCTGAAAATATCCTACGAGGCATCGCCTCCGAGACTGACGATTATTAACCACCACACGGAAAAAGG
stSG3698 b	145 G	 	į	TCTTGCCCTTTGTGTTACCCCTAGAGAGATGGCACCCAATCCCCAGGGTTGCTCTCTGACTTCCACCAT TCACTGACTTTTATTGCCAGAGGAGCTCCCAGGAATCCACAGTTCTGGAAGAGAGAG
stSG3698 a	510	 	1	TCTTGCCCTTTGTGTTACCCCTAGAGATGGCACCCAATCCCCAGGGTTGCGJTCTCTGACTTCCACATTCACTGACTTTTATTGCCAGAGGGGGCTCCAGGGAATCCACAGGGTTCTGGAAGAGAGGGGGCTCTAAGGGGAAATACCCACCACCCTTCCCTCACTGCAGAA
stSG3724	107 C	CT	:	ACCAGCCTCATGTGCAGAGGGTCTCCTGCTGGATCCCCAACTGGAGCCATCCCTGGGCCTAGACTTCT GTCTCCCTCACTGGAGCTTJACACAGGAGTCCCTCAGGGCAAAA GTGGCTATGCTGAGGGGGGGAGTCCCTCAGGGCAAAA GTGGCTATGCTGGTGGTGCT
stSG3725	104 G		1	GCCAAAACAAAAGATCTTTGGAGTTTACTGACGGCAGCAGTTAATAGCACAGTCAACAGCATTTAA ATCAAATATTATTACCAGCCAACAGCAACAGCCC[G/A]AGCAGGAATCGGCACATAGTCATAA ATAACATCAGGGGTAAATAACGGCACATTTA
stSG3751	128 (G.A	ı	CGGAAGAAAGAAACACAAATCCACAGGAACAATCTATGGTTCATACCTTTTTAGAAAAGATGATTTTG AGGGCTTCAGTATTTAAAGGGGAAAGCAGGCTGGAGGGGAAAGAGAGAG
stSG3787	49 T	Γ.Α	!	TICTGTGCAAAAGAATCCACATCATTGTTTGGTAGCAGAGGATCTCTTA[T/A]AAAGTTCCCTAAGA CACTGAGGCATAAAAAAAAAAAAAA
stSG3880 b	115 G.C			GACAAGAGGGAAGGATGCGCCAGAGACCAGGGCTGGGGCAGCTGGGGGGTCCCTGAGTGCCAGGCGC CACCACACGTCCTGTGGGTCAAGGCCCCTCCTCTGGGGAGCAGGTCTA{G/C}GGCACGGAGGATGCAG GGCTGGGAGGGGACCCCACCTCGGGGACCCAAAAGGAGTCCATTTCTGCCCT

stSG3880	(GACAAGAGGGAAGAGATGCGCCAGAGACCAGGGCTTGGCJGGCAGCTGGGGGGTCCCTGAGTGCCAGG CGCCAOCACACGTCCTGTGGGTCAAGGCCCCTCCTCTGGGGAGCAGGTCTAGGGCACGGAGGATGCAG
no .	2000	:	•••	פפרו מפמאומפסארררריאוררו ורפפומפאררריאאאמפטאפרו וו וו וו מפרי
				AATCAGCCATTGTACACATTGCAGCTATGTATTGTTAGTGTTGT[A/G]TTTTTTTTCCATTAACTAA TACATGCCCTCATAGATATTCAATTAGTGTTATCACCATGGGAACAAGATGCTGATTCGTCAACTA
stSG3895	44 A C	G	•	AAAAT
				TCTGTTGAGACTGGAGAGCCAGGTACCAAGCACCGACTCTGGTGGGAACCTGGCTTCCTGATAACA
000000	- F			TCATCTATTTCACCTAAATGTGAACTGCTTTCTTTC[T/CJTCAGCTCAATAGCTTAACATCTAATTC ATGTTTCCTTACTTAACATATCTAATTC
				A CONTRICTOR OF THE CONTRICT OF THE CANONIC CANTITICION OF THE CONTRICT OF THE CONTRICT OF THE CONTRICT OF THE CANONIC CANTITICION OF THE CANONIC CANTITICION OF THE CANONIC CANTITICION OF THE CANONIC CANTITICION OF THE CANONIC CANTITICION OF THE CANONIC CANTITICION OF THE CANONIC CANTITICION OF THE CANONIC CANTITICION OF THE CANONIC CANTITICION OF THE CANONIC CANTITICION OF THE CANTITIC CANONIC CANONIC CANTITIC CANTIT
stSG3935	50 G		:	GGG G G C GACGGACAGGCACACCCAGCAG I I CAACAAGA I I G I CCICCCCAGAG G G G G G G G G G G G G G G G G
	_			GAGGAAGAGGTTGAAGAAGTGCTGA/AJAAATATATTAAGATTTCCTTGGGGAGAAATCTCGTGC
				CCAAACCTGGTGATGGATCCCTTACTATTTAGAATAAGGAACAAAATAAACCCTTGTGTATGTA
stSG40	25 A C	 S		CCCAA
				GTGTGGGCTGTCTGATGATGGCGCGCTC[A/G]TACTCTTTACGGTCTTACACTTTTATGCTCT
stSG4009	32 A (G	1	ATGAATTCTCTGATGGGCTTTAAGGGCTGAACCATATCTGAAGGTTTTCCCACACTGCTTACA
				AGAAGCCTTGGGGACAATGGCAGTGCCCTTTCTGAGTAAGACATGAATGCCATCTGGAGGATCCATT
				TGAAACTACAGTGCAGTAACCAAAGAACCTAATGTTTTCAAGCATAAAGGTACTTT[T/C]TGTGAAC
stSG4033	123 T		•	AGGTGGCCAACAC
stSG4038	- (GCTGAGAGCACGTGTACAGCCACGCCTGT[G/A]CGCAGGCCCACTCTGTGCAATAAACATGTGCGCCACTCTGTGCATAAACATGTGCGCCACTGTGAGAAACATGAGAAAAAAAA
rd.	5 62	A	:	ראופוונטוטאפים וכאמפים וכאמפים וכאמפים וכאמפים מאמפים וכאמו וכאומו וכאמפים ובים ובים ובים ובים
				ACTGTGGTTCAACAGTATTGCGTTGTCAGACTAGGAAAGCTAAACGAACAAAA[T/C]GGTTTTAGTT
				TTGCTGAAGACTGGCCTTATTAATGGACAGCTTTCCTAACAAGAGATTATTAACTTTTATCAGGTGTT
stSG406	53 T		:	AACATCTGTTTCAGGAACATGGCA
				ATCTGGGCTGAATTAGTCAAGCAGGTCAGATACTATTGTCTGCTAGATGTATTAG(G/TJATAAAAAA
stSG4095				GTTTGCTTCTGTAATACTTTTAAAGCTTGCTTATCTCATCTGTAAACCTATGTGTCTTGAGAATCAAG
q	55 G	1	•	CCTTTGGACTAACCCCAGGGCATTGCCCTTCATCCTGG
				ATCTGGGCTGAATTAGTCAAGCAGGTC[A/C]GATACTATTGTCTGCTAGATGTATTAGGATAAAAAA
stSG4095				GTTTGCTTCTGTAATACTTTTAAAGCTTGCTTATCTCATCTGTAAACCTATGTGTCTTGAGAATCAAG
æ	27 A			CCTTTGGACTAACCCCAGGGCATTGCCCTTCATCCTGG
				TGCATGTTCCACATCTTTCATAACAGCAAAATGTATAATAAACTTACGTACTTATGGATAATCAC[G/
stSG4120	65 GA	۸	•••	A)CTTTTTCCCCTCAGAGGCCCACAGTTAAACACGTTCCAGCACACCATTAATCCACCGAGCT

	-			CTTGGCAGATAAGGGACTCGTTTGCAGATATGACTTTCCTTTGTGTACATTTCT[A/G]TATATTATTT TACTTCTTCTGAAAATGCCACATAATTTGCAATAAATGATTCACTCCTTAGCTCCAAAAGCAAAGTCC
stSG4128	54 A	G		TTTATCAAAATGCAAATGTTCCAGAGGG
stSG4209 b	128 G	A	!	CACGAAACAGATGCAGCCTACACAGTGCTGTAGGACCGAGGCTCACAAACATCCACATGGCACAAGC AGGGCCGGCCACTCCAGGCAAACGAAGCCACCCCGAACCTTGCAGAGGCCGCACTCCCTQ(G/A)GC AGGGGGACCACGGAGGCGACAGGTGCTTTGATGCCTCCGAAGAGCTGAGGTCCATTCCA
stSG4209	מ ני			CACGAAACAGATGCAGCCTACACAGTGCTGTAGGACCGAGGCTCACAAACATCCACATGGCACAA(GA)CAGGGCCGGCCGCACTCCAGGAAGCAAAGCAAAGCCACCCGAAACCGAAAGCCACCCGAAACCGAAAGCTGCGAAGCTGAGGTGAGGTGCTTGATGCCTCCGAAAGAGGTGAGCTGAGCTCCATCCA
stSG4254				CATTACCCAGAACGCCATGGAGGACCAGAGCJG/AJCCACGGCCGGGACTCCCGCGATGGCTGGGGGGGGGGGG
q	31	A	•	TGGGGGGACCATGGCCGAAGAGGATGACCGGTCATG
stSG4301	81 T	 0	•	TGCAACAGCTCTGAGAGAAATCCTTGGCAGATCAAAAGAGGGTAGTGGCTCCCACACTTTCCATTAGCAAATAAAT
stSG4331				CTCACAAAGGCCAACACAGAAAAGATACAAATACATTCATCCAGCTAATATTTAGTTTTATGACACACAGAGTI/GJTTTTCAAACAAGTTTAAGTGTCACCTGAAGAGCATGTTAAAAGTTTAAGTTTAAGTTTAACTTTAAGAAGAGAGAG
stSG4340	76 G			TTTTGCAACAACATGGATGGACCTGGAGGCCATTAAGTGAAGTAATGATACAGAAAGTCAAAAACCCATTAAGTGAAGTGGAGGAGAAAAAAAA
stSG4361	109 A C	i		TTCCCAACCATTGAGTGACAGAGCTCAGTCATGCAGAACTCAGGTTTGCATGACTCAAATTAGGCACAGATCTTCGAAATTTCCATAGAAACGACTCACAGAATTTCCACAAATGTCGAGGATAACTGCATCTTTTGC(A/C)CCTTCACAACTAGAAACGACTCACAAATGTCGAGG
stSG4361	F			TTCCCAACCATTGAGTGACAGAGC[T/C]CAGTCATGCAGAACTCAGGTTTGCATGACTCAAATTAGGCACAGATTTCCATAAGGGATAACTGCATCTTTGCACCATCATGAAAACGACTCAAAATGTCAAAAATGTCAAAATGTCAAAAAAAA
stSG4376	73		:	TTTCACTGCTACTGGTTTCGGTGTCTGAGTCCTCAAACTCTGCTTTGCAAGTGCTTCTCCAAGGGGAGGAACAGAGGCATTTCTTCTTCTTCTCAGGTGCTGCAGGCGAGCATTCTTCTTCTTCTTCTTCTTCTTCTTCTTTCT
stSG4381	50 T		•••	GAAGGCCACAAACACTCCATAGCCAGAGAATGACAACATACGATTTTCTTTT/CJTCAGTCTTGTAGTATCCACAGAACACCCCATTAAATTCCATGCC
stSG4410		79 A G	!	ACCAATGGTTCTGCTATGTGCATCCGATATTTTTTGCCCGATCTGAAATACTGCAAGGGCTTAACCAT TCAAACACCGCJA/GJTGACAACGAACCCAGTGGACTGTGAAACTCAGGCTGCAGGAGGGTGGCTTGT CAGCTGGGT
	ı			

				AGCAGATCAGTCAGCCCACTTGTCTTCTTCTTTAGGGAGGG
stSG443	65 CT		• • •	AAATGGAATTCTATCCTGGCTGTCCTTCTCAGGTC
stSG4430				ATGCACATTAAATGAATGGCCTAACTACTGGGAACTTTAGTAGTTCTATAAGGT[A/GJATTAACATA
Ø	54 A G	•	•••	GGTAGGATCCAGTTCCTATGACAGGCTGCTGAAGGAACAGATAIGAGGCAICAAGAGGCCAIII
				CCTCOCTTOCCTTCCCAGTCTTTCCATACTGTTCCCCCTCCCGCCCCCCAGGCTCT
stSG4448	99 GA	•	•	CGCCTAGCCCTGCGCGTCACTGC[G/A]TGGGTTAGGCCCCCAAAAA
				ATTAGCCATTCATCTTGCAACAATTGCTTTACTGTAACTAAGAGTACTGTACTGATGATGTTTACAAT
				TAACTTTGGACAACTTAAAACTTA[T/C]TAGTGACATTGCTGTCTAATAATCAAATACTTCATCATA
stSG4449	92 T C			GGCTGAACATATTAAAAGAGCAAAGTTACCCCTCCC
				CAGACATGAGGGATGGCCCTGTCTCTGGGACAGAGCCTCACAJAGATGATGTCCATGTTTTGTGT
				GAATGAAACTCAAACACTCTTCAGTTTTTAGAGTCATTTTCTGGTATCGAGCGACCACACCGAGGAG
stSG4467	42 C A	ŀ		CACACOCTGCTTCCAAGGCTGCCTTCTGCACACAGT
				ACATGTCATTTCCTGACCAGG[A/C]TATTAAATAGTTTATTTAGAAGAAATGAGTTGAAGTGAGCGA
stSG4475	21 A C	1		TTAAGAGACACAAACTGGACTTTTGTTTTCTTTTACTGTAGCACCCAGGTTTCATG
				GTAACATTCTGGGGGTGGGGGTGAGACAACA[A/G]ATGAACCAATAATTAATTACAATTATACATT
				TCAAGGAGACTTTTAATCTAGGTTAATGTGAAACGCAGCCATCAATGGTTTGTCAGGAAAAGGGAGA
stSG4477	32 A G			TGAAGTCTTGCTCTGGGGCAACGTTTGCCATTGCAGTCAGACTTGGC
				TGAACTCAGAGCTGGGTGGGGAGCTGCAGGCAGGGGGGGG
				CAGCAGGCGTCGCCTGCCTGGCGTTGGTAGAAGAGGACATAGGCTGCCTTGGACTCGATCT
stSG4531	79 CT	-	•	GATTCTCATTGACAGGGAGACGCTGTTGTCATCAA
stSG4550				TGCATTAAGGAATGATACGGCATATTTGGGGGACAGAGAACAGGCTTGATGAGGACAGAGTCTATTT
p	86 G	A		AAAAGAGACAGTGGGCACC[G/A]CAATTGGAGGGGAAGGCGGGGGGGTTTTAGAGAAC
stSG4550				TGCATTAAGGAATGATACGGCATATTTGGGGGACAGAGAACAGGCTTGATGAGGACAGAGTCTATT
Ø	85 C C	G		AAAAGAGACAGTGGGCAACJC/GJGCAATTGGAGGGGAAGGCGGGGGCAGGGTTTTAGAGAAC
				AATCAGGCACAAGGTCGGGAGAGAAGCCAACAAAAGCTCTTCTGCACIA/GJATGGGAGGGAGACAC
stSG4590	47 A (G	•	CATTGAAAAAGGCATCGTTCCTTCATGCAAGCGAGGCCTGGCTCCCACAGGCATGGTCTCCTTG
				AATCTGTATCACCCAGCGCTGG[T/C]CAATGTACTAGTAGCTTTCCACAGGGATTTTTATACTATTC
				CTATAAGGTTTTATCATGAATAAAAAGCTCACAACTCTTTTCAGCCATTGCAGATTCACATTTATCT
stSG4623	22 T (C		TAATATTCCTGTTCAAGATGCTCTGGAG
				TAAAAAAAAACAACCCCCCAAAAAAACACCCAGAAGTTTTGAGTTTTATGTTTTCAGATTTAAAG
				GTATTTTCTTTCTTAGCTTCTAAATTTTGAGTCATĮA/CJATCAGAAAGTCTTCCCTACTCCAAGGTGA
stSG4843 102 A C	102 A	:	•••	GAAAGGA

stSG4850				GGAATCTAAACTGGGAATGGCCGAGGAGGAAGGGGCTQCTJGTGCACTTGCAGGCCACGTCAGGAG AGCCAGCGGTGCCTGTCGGGGAGGTTTCCAAGGTGCTCCGTGAAGAGCATGGGCAAGTTGTCTGACAC
a	38 C	T		ТЕВТВЕНТСТВВЕТССС
				AACTCTGAAGGGGGTGACCTCAACCCAGCCCTTGTTTCTGTGAGGTCCTGCTTTTGCAGAATGGCCTG
stSG4879	86 A	G	B 0 0	AAACCTTCC
1007000	V ()			ACTGGACTGGCTGCTGCTGAGCCGGCTGAGCGGCGTGGGACTGCGGGCTGACAACACACAC
2001				ACAN CONTROLL CONTROL
				AAACAAA I CAAACCCAA I CCCCAGCAGGGGGGGGGG
stSG4896	112 C	:	•	AATTAATTGACTG
				ACAGTGCCGATGGTTACACAAT[G/A]TTGTAAATGTATTTAATCCCACTTACGAATGATTAAAATGA
stSG4932	22 G	A		TAAATCTTATGTTTATTTCATCACTACCAAAAGGCTGTGGGTGCAGGGGTGCTGGTTTCTGGTCCT
				TCATGACTCCCAGGAAAAGGTCCT[A/GJTCTTAGCTTCCTCCTCCCTACTTTCCTCTACATGGTCAGC
stSG4950	24 A	G		ACTGTAATGTAGCTAAGATATAGTAAGGCATTGCTCCCTACCCCTACACTTCAAGG
				AGATACGGGCAAAACACTGGGATGGCTTCCTGACAACTTAAGAGGTCTCCGAGTTATATTCTGGGTT
				GGGAAACACTGACCCAGCCCTTATTCCTTCAAGGACTCTAGTCATTGGCAAGGAGGATTCATGAGCC
stSG4957	136G	A	•	CC(G/A)GTGACACAGATGGGGGCCCTGCTCTATATTCAAC
				GAAGGTGCTCTGAGGAGGTGTGACTCTCCCTGGCTGACAGGGGAAGGCTTAGCAGAGCTTTGTCTTAG
stSG4961	91		•	AGGAGTAGATGAAAAGGAAAGTA[C/T]AGAGGGCCATTCAGGCCAAGTCAGCAACACAGACAA
				ACTGGTGCCTCTCAGCAGATTCAGGGGTCGTGCTGGTTACCACAAACTCAGTAGGAGTGCAA
				GGGCTĮA/GJTACCCCCGGAGCTAGACAGCCTGGGTTTGAATCTCAACTTCTCCCTTTTCTTGCTGTGC
stSG4967	72 A	e		AACCTTG
				CAAAGGAGAGAGGCCCCAA(T/CJTTT/AATGGTTTCCTCTCCCCTCATGGTATTTGATCCAAAAA
				CTATATACAATITTGTAGCAGTCTCTGTATAGTTATTACACATGTTTAGAAGGGAGGG
stSG4997	22	тс	•••	GGGATAGGGAGAATGGTGATCCAAAAT
				ACAGGTTCTCACACTTTGAGCCTTTAGTGCAAAAACA[C/TJTATGCCATGCGGGAAATAAAATGCTT
stSG6312	37 C	:	1	ATCCAGTGGAGCGCTCCCCTGATGCATTGAAATATTAGGATACTCAAGCAGAAGAC
				GCTCTGGTCAAGCAAATTCTCCAGGACAGAAGCAACAAGGACAGTAAAACACACATGTATGACCCTTA
				CAAGTGCTTTAAGATTTTAAAAATGTGATGTTTTGTCCAC[G/A]ATAGTTCAGGCAATTAAGAATAT
stSG6345				GCAACCCAGAGAATTTCTGTGAAAACATTTTGCTCTTTGGCCTGGTGTGGACAGAAAGGGTGGCCAA
æ	107 GA	A	•	ATGGATTGAGTGATGACCAGACATG

				TGTGAAATGTACACTCAGGTCTAACAAATACCTATTATTTCTCTGGTTAAGAAGGTTTAGCAGGAGC
				CTCCAATGAGCACTGTATGTA[G/C]AGAAAGGGAAGGAGGAGGAGGAGGAGGAACAGATCTGCACAGA
stSG6362	88 G	:	•	AT
				CACATCTGTGTTTCTGGAGGAAAGGGAAACCACAGAAGGCCAGGAGTTTGGGTGTGCACTGG[G/T]TGTTTCAACTGGGGTGCAAACTGAGTCCTTGAAGTCTCGCTCCTGAGGCTGCAGAAGAAGTGAATAGA
stSG8010	62 G	T		TGGCTT
				AGCTCCTGACTCCCTGTTCAGTGACGTCATGTTGGTAGCCTGAAATGGACCACGAAJGTGGGAGTTAT
stSG8022	53 0		;	TTACACCATGGAAACTGGAAAACTCTACAAATCAATGCGTTTATTTCTTTATTTCAGAAACTGGAAAGGCAGAATGAAT
				TGATTGTTAGGGATAAGTGGGCATTGTGTTTACAAATTACTTCCAAAGAATTCAGAAAATTGTGTGT
stSG8032	67 GC	•	-	G/CJTGGGAGGCAGGGTAGCAAGATAAAAAGGGGGGGGGACAGCTGGGGGTTGGTAAAA
stSG8064				AGCTGGCTCTTCCTGTGCGTGTTCGGGAGGCTTCACGTCCTCG[C/A]CCGTGGTCCCTGGGTGGCC
р	46 C	A		TGCAGGACCAGGGGGTGGGAAACAATGCCAGGGAGAATTCCTGTCACATCAAACAGGGAACA
stSG8064				AGCTGGCTCTTCCTTCTGTGCGT[G/CJTTCGGGAGGCTTCACGTCCTCGCCCGTGGTCCCTGGGTGGCCC
Ø	23 G	: 0	1	TGCAGGACCAGGGGTGGGAAACAATGCCAGGGAGAATTCCTGTCACATCAACAGGGAACA
				CACCATCATCACATCGAGTAGGCTGAGGAGCAGGGGGGGG
stSG8072	59 A	G		AGAGGCAGAAGGAAGTCCGAGTATTAGTGGCCGCATGCAGTTCAAGCCTGTGCTGTTCAAAA
				ATACACCCACACCCCACTCAACCTTGTATCAAATTCCA[A/G]AAGTGTAAAGTATAAGAAT
				ATCATGACTAGTTAAAAGATAGCAAATACCATAAGGTACAAGTTCAAGTATTAGTATAACAAGTAT
stSG8100	40 A	G		CTGAGTAACAAATGTCCTTGGAAATGGG
				AAGGCTCCTTTGAAAGCATGGTTTATTTGTTCCATTTAACTTGTTCTCAGCTATACTGAAGTATGATT
				GACAAATAAAACTTGCATATATTGAGATGTACAGTGTGATGATACATGTATGT
stSG8102	138 T	O		TGA[T/C]TGTCATAATCAATAATTGGTATATTGGTTTAGGAAATGTGATGGT
				CAGTGGTTCTCAAACTCCAGCGTACACGAGGATGGTCTTGTGCTTGTTAATACACAGATGACTAGGCC
				CACCTGCGGAGTTCCTGTTGGAGTCTAGGCCTGAGAATATTC[A/G]TTTCTAACAAGTTCCCAGGTGA
stSG8105	110 A	G	•	CCCTGAGGCTCTTGGGCGAACATGCTTTGAG
stSG8130				GTGTGTACATCATTGGGAATGGGAAATAAATGACTGGATGGTCGCTGCTTTTTAAGTTTCAAATT
Р	36 T			GACATTCCAGACAGCGGTGCCTGAGCCTT/C]GTGCCTGTCTTCAGATCTTCACAGCACAGTTCC
stSG8130				GTGTGTACATCATTGGGAATGGGGGAAATAAATGA(CG)TGGATGGTCGCTGCTTTTTAAGTTTCA
В	36 C	G	ı	AATTGACATTCCAGACAAGCGGTGCCTGAGCCTGTGCCTGTCTTCAGATCTTCACAGCACAGTTCC
				TTGTGGACTTCAAATTCTTTCCTTCAGATTTTAAAATGACATTATGCATGTACATATTTTAAAATTT
stSG8145				AGACACATTTTAGAGAACACAATTGTGAACACAAATCTAAGAAATGAATG
q	124 T	A	•	TCTGATTCAAACACTTATCTTAAACTGACTTCTGTCAATCCTCTGTCCTGTGAAGG

stSG8145	F		TIGTGGACTICAAATICTITCCTICAGATITITAAAATGACATTATGCATGTACATATTITTAAAATTTAGAAGAACACATTITAGAAGAACACAATTGTGAAGCTJACAAATCTAAGAAATGAAGAATGAAGAATGAAAATGAAAATGAAAAAA
	-)	•	וכומאווכשאמראלוואוכוואאלוומומאלוומומאלוומומאלוומומאלוואומולואומו
			ATTGTTCTTGCAATTGCTTGGATTTTTCAGAATAGT[A/G]ATAAATAATAACGGGAATCCTAGGCAT
stSG8150 36 A		_ :	CGIGITITICIA IGITITIA ACAGGA ITTICICIA ATGITICACIA ITA AATACA IGCAGGAAATI
			AGAGGATTATGGAGGGTGGGCAGGATCIC/TICAACATTATGACCCTGAACCTCCAGAACTGGAT
stSG8340 30 C	CT	***	TCACTAGAAGGAGAGAAAACGCTCATCAAAA
,			TGTGTATTGGGTGACTGTAGCCTAAGGATAAATGAAATAAAT
	-		GGAGTGAACTGGGAATACTTGGTTACAAGGTATTTGCACTACCT[G/A]TGAAGCAGCACAGCATTAT
stSG8466 111	G A	•	TTGAAAG
			GATCAAGCAGTGCACACGGGTCACGATGGACCAGCTCTCCACAGTGCACCATGAGATGGGCCCATATA
			CAGTACTACCTGCAGTACAAGGATCTGCCCGTCTCCCTGCGTCGGGGGGGG
ESTD-ACE	:		GGCCATTGGGGACGTGCTGGGCTCTCGGTCTCCACTCCTGAACATCTGCACAAAATCGGCCTGC
			ACCATCTTATACTATGGCAGGTAAGTCCATACAGAGGCCCTCTCTCCCTGGGATTTGAGTGGGGTC
	-		CCCAGCTCCACCCAGAGGCCCCTGGGGAATTCCAGGGTCACTGTTCCTTCC
			CAAGCCAGCTCCAGGACAGAGTGGGACTGTGAGGACATGGAGGCCTCGGCACTGAGCTGCAGACCC
ESTD-ADA	:	:	GCAGACCAACTCCTGAGCTTTCTGGGCCTCTGAGTCTTGTCCTC
ESTD-AK-			GGGAGTGACAGCTAGAGCACCAAGGGGGGCCTCTACAGCTGTGTTCTCATGGAGGACAGGCTTCTGCTC
168	•	•	ATTCTGG
			AATOCCAGCACTTTAGGAGGCTGAGGCAGGCATATCACCAGAGGTCAGGAGTTTGAGACCAGTCTGA
		-	CCAACATGGTGAAACCCCATCTCTACTAAAATACAAAATTAGCCAGGCATGGTGGTGCATGCCTGT
			AATCCCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGCGAAGGTTGTGGTGAGCCGAGAT
ESTD-ALB	1 1 1	:	GGCACCATTGCACTCCAGCCTGGGCAACAAGAGTAAAACTCTGTCTTC
			TCTCCTGTCATTCCTACTCCATTAGTTCAAGGTCAGTGAAGAACTGGGGCCAATTAACCAAGTAATTCA
ESTD			TGGACTGCCCAACTGCGAAACAAGAGGCCGCAGTGGAGCAGGAGTATTATGCTACGCGGTTACCTT
ANT1	;	i	TTTTATGGAGGACCGAACTGAGGCTGAGATGATCCTGT
			OCAGGTGTTGTGGCACGTGCCTGTAATCCCAGCTACTCGGGAGACTGAGGCATGAGAATCTTTTGAAC
ESTO		-	CGGGGAGGCGGAGGTTGCAGTGAGCTGACATCGCGCCACTGCACTCCAGCCTAGGTGACAGAGCAAG
APOA2		1	ACTCC
			GGAAGAAATGGAGCCTGTGGGAAGGAGGCGTCCGAGGGGTGGGCTTTGTGGCAAGCCCCTTGCTGA
			AGCAGAGGGCGTGAAGAACCGGGAGCTCATCCACATCTCTGACTGGCTGCCAACACTCATGAAGCT
ESTI			GGCCAGGGGACACACCAATGGCACAAGCCTCTGGATGGCTTCGACGTGTGGAAAACCATCAGTGAA
APSB ::	:	:-	GGAAGCCCATCCCCAGAATTGAGCTGCTGCATAATATTGACCCAAAC

ESTD- AT3a	-			AGACCTCAGTTTCCTCTTCTGTAAAAGGGAAGTTTGTTCTTGGATCTCCATGGGCCCAGCCAG
ESTD- B3AR	-	1	!	GGCTGCCAGGGGTTCCGTGGGAGGCGGCCCTAGCCGGGGCCTGCTGGCGCTGGCGGGTGCTGGCCACCCCACGTGTGGCGAGCCATGGCCATGGCCATCGCCCGGAGCTCCCAGACCTTCCAGACCTTGGCAACGTTCGTGACCTTCGCTGGCGAGCCATGGCAACGTTCGTGACTTCGCTGGCGGCCGCCGCCAGCCTGGTGATGGGACTCCTGGTGGTGCCGCCGCCGGCCG
ESTD- BA511	:		i	GGGCAACATAGTGAAACCCCATCTCTACAAAAATACAAAATTAGCCAGGTGTGGTAGCAAGTGC CTGTAGTCCCAGCTACTTGGGAGGCTGAAGTGGGAGGATCCCTTAAGCCTGGGAGGTGGAGGCTGCAG TGAGCCAAGATGGTGCCACTGCA
ESTD- BCL2		•	•	AGCTGGATTATAAACTCCTCTTTCTTGGGGGCCGTGGGGGTGGGAGCTGGGGGCGAGAGTGCCTT GGCCCCCGTTGCTTTCCTCTGGGAAGGATGGCGCACGCTGGGAGAACAGGGTACGACAACCGGGAG ATAGTGATGAAGTACATCCATTATAAAGCTGTCGCAGAGGGGCTACGAGTGGGGATGCGGGAGATGTGG GCCCGCGCGCGCGGGGCCCCCCCACCCCGGCATCTTCTCCTCCCA
ESTD-BCR	i	•	••	CAGTGGCTGAGTGGACGATGACATTCAGAAACCCATAGAGCCCCGGAGACTCATCATCTGCGCAAGAGACCAAAAGGGAGGCAGGTGACAACTCTGCTTCAAAAGGGAGGCAGGTGACAAAGTTCTGTTCTGCTTCAAAATGGCAGGAGGCAGGTGACAAGTCTGCTTCAAAATCAACCATCCGGTGACACATCCGGTGGACACAAAAGGCACATCTGCCTGC
ESTD- BRCA1a		l I	i	AAGAAGAGAAACTAGAAACAGTTAAAGTGTCTAATAATGCTGAAGACCCCCAAAGGTCTCATGTTAA GTGGAGAAAGGGTTTTGCAAACTGAAAGATCTGTAGAGAGTAGCAGTATTTCACTGGTACCTGGTAC TGATTATGGCACTCAGGAAAGTATCTCGTTACTGGAAGTTAGCACTCTAGGGAAGGCAAAAAAA
ESTD- BRCA1b		•	I	ACTAAATGTAAGAAAAATCTGCTAGAGGAAAACTTTGAGGAACATTCAATGTCACCTGAAAGAGAAAATGTGGGGAAATGAGGAAATGGGGAAATGGGGAAATGGGGAAATGGGGGAAATGGGGGG
ESTD- BRCA1c	1			ATGCATCTCAGGTTTGTTCTGAGACACCTGATGACCTGTTAGATGATGGTGAAATAAAGGAAGG
ESTD-C1R				ACACAGGTGCTGGCACTGGGGCTGGGGATCCTCCTCCCTAATTTGCTCCGGGAAGCACATTCATCAA
ESTD-C6	<u>-</u>		•	CCCAGTCAGTTTGGGGGACAGCCATGCACTGAGCCTCTGGTAGCCTTTCAACCATGCATTCCATCTAA GCTCTGCAAAAAT

,				
ESTD-C7	:	•	•	ATATCGTGGCCTTAGTTACCTAGAGCTGGACAATCCTGCTGGA
ESTD-			!	GGCAAGTTTTTATTGATAGAGAGAAATCAAATAATGGCAATGAGGAGACATCACCTGGAATGTTAGGCAGTGCCAACGTACCTGGGAGATGGACATGGCCAATGGCAATGGCAATGGGCAATGGGCAATGGGCAATGGGCGATACAAAGGAATAGGCAAGGCAAGGGATACAAAGGAATAGGCTGGTGATGACCCAAAGCAAGGAGGACTAGTAAATTGTGCTTCATTATGGTCCTTTCCCGGCCTTCTCTCTC
ESTD.				TAGAACCATCAAAGAGGAATAGGCTGGTGACCCCAAAGCAAGGAGGAGGACCTAGTAACATAATTGTGC TTCATTATGGTCCTTTCCCGGCCTTCTCTCACACATACACAGAGCCCTACCAGGACCAGACAGCT CTCAGAGCAACCCTAGCCCCATTACCTTTCCCTTTCCAGAGGACCTGAAAAACGTGTTCCCACCGA
CB23	!			GGTCGCTGTGTTTGAGCCATCAGAGGAGCAGATCTCCCACACCCAAAAA ACCAGGACCAGACAGCTCTCAGAGCAACCCTAGCCCCATTACCTCTTCCCAGAGGACCTGAA AAACGTGTTCCCACCCGAGGTCGCTGTGTTTGAGCCATCAGAAGCAGAGGAGCTGCCACACCCACACAGAGGGCCACCACGGTGTTTTACCCCACACGAGGAGCTGAACTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGATGG
CB24 -	:	1 1	•	GAAGGAGGTGCACAGTGGGGTCAGCACAGCAGCAGCACCACTCAAGGAG
ESTD- CB25	<u></u>		ı	GTTTCTTTCAGACTGTGGCTTCAOCTCCGGTAAGTGAGTCTCTCCTTTTTCTCTCTTTTCGCCGTC TCTGCTCTCGAACCAGGGCATGGAGAATCCACGGACACAGGGGCGTGAGGGAGG
ESTD- CB27	:]	ı	TTTTCTGTTTCCCTGAAGATTGAGCTCCCAACCCCCAAGTACGAAATAGGCTAAACCAATAAAAAT TGTGTGTTGGGCCTGGTTGCATTTCAGGAGTGTCTGTGGAGTTCTGCTCATCATCAGGAAATGGGAAAGGCATTCCTTTCTTCTCTCCCACCAATGCTGCTTTTTCTCTCCCAATGCTGCTTTCTTCTCTCCAATGCTGCTTTCTCTCCAATGCTGCTTTCTCTCCTCCAATGCTGCTTTCTCTCCTGATGGAAAGTCCTCAAACACCATTTCCATACC
ESTD- COL2A1c	:		I	AGAATGTATATAGTCCTCAAACTGGCCATCTCCATTITCAGTCCAAAAGTTATACAGCTAGACAACA GTGGTGACATACAGCTAGACAACA GTGGTGACATACATTTATGCTCTTTCCTGTCACTTTCAGGGTGTTCAAGGTGGAAAAGGT GAACAGGGTCCCGCTGGTCCTCCAGGCTACCAGGTAAAATCTGCCTTTG GTCAGCCTATTGAGCTGTAAAATCACCATACCGTACCT
ESTD-				TGAGAGAACACCTAGTCCTCCTTCTCTCTCAATGGCAAGAAAGTTAAGTGACCTATCTAGGGC AATAGACTGAGTTTGCTGGAACCTGGAACACTGGACTTCTTTCT
				CCCCCAATCCCCCACTTCTCCAATCTCTCCACAAACCCCTTACAAACACAAAAAA
ESTD				GGCAAATCCATCAAAAGTTAACTTCTGGGCAGATGAAAAGCTACCATCACTTCCTCATCATGAAAACCTGGGGGGGG
CPT2	-	:	-	TTGAGGTCAGGAGTTTGAGACCAACCTGGCCAACAT

ESTD-				ATGGCTTGCCTTGGATTTCAGCGGCACAAGGCTCAGCTGAACCTGGCTACCAGGACCTGGCCCTGCAC TCTCCTGTTTTTTCTTCTTCTTCATCCCTGTCTTCTGCAAAGCAATGCACGTGGCCCAGCCTGTGTGT TCTCCTGTTTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTT
ESTD-				CAGGCCAGCGTGGTCGAGGTGGTCACCATCCCGGCAGGAACAGGTCAGCCACACTATGCACACAGGTCAGCCACAGGTCAGCACAGGTCAGCAGGTCAGCAGGTCAGCAGGTCAGCAGGTCAGCAGGTCAGCAGGTCAGCAGAGAACAGGTCAGCAGAGAACAGGTCAGCAAAACAGGACAAAACAGAAAACAGAAAAAAAA
				AAAAAACATTTTAACACCTTTTCAATCATATACACCATAAATTTCCATTTTTCACATAAGTCAGTT TGAGCTGAGTTTTCCAATTACTTGCAATCTAAAATGTCATAACTGATTAATGCAAGTTCAACAGACA
ESTD- D11S1873-	:	, ,	•	ACTITICCCAAGCATCTACGATCAGAAAGGTCAAAATATTACATATCTGGATTAAATTATGCCCATAT CTGCATGTC
				CATCCCCAAGCCCATCCTCTTAGCCACTGGCATTTTTTGCCGCCTCTGACAGATACACTCAGGGCCGTCCATGCTGCACACACA
ESTD- D17S33	:			GGGTTGTGTGGCTATGTGGTGGTCTTGTGTAGACGGGGGCTTTGGTTTCAGTTGCACTATTGCGTTATT GCAGATTGCTTTGCACCTGAGCGAGCCTC
				TTTGAGACCACCCTGGCCAACATGGCGAAATCACATGTCTACCAAAATTACAAAATTAGGTGGGTG
ESTD- D18S8	<u> </u>		;	GGAGGCAGAGCTTGCAGTGAGCCAAGATCACACCTGCACTTACAGCCTGGGTGACACAGTGGAGA CTCTGTCTCAA
				AACTGATTAGAACCTGAAAATACATATTTTATCTGAAAAAGTCGAGTTATTGGCTCATCACATTGGATTTTTGCATCATTAAAAAAATCCAATAAAGTACACTGTAATAAAGAATTTAACAGAATATGT
ESTD-	<u> </u>			TTATTCAAACTATTTATCACTTATTTATTGGTAAGCCATACTAAATTCTAAAGCATGTTTCTGAAAG
				AGGITCCACATTATTGCTGATGTTTGCTGATGTTTCCAGGAGCCTTGATGTCATTCTGTATCTCTCAGGATGAAAACTCTCTACAGCCGTTGTTGTTATTAATTCAAGGGTTGA
D3S12 -	<u>.</u>	-	•	ACATAAAGTA
		-		GATCATGTGGCCCAAGTGGCAGAGCTACTTATACCATGACCAGACCTGCTAGCAGAACATTTCCTGC
ESTD-				AGAAGTGAAAACATACTGCTAGAAGCCAGAGTCATACTGGATGTTCTGTTTCGGTCTTCACATGG
D3S2	:	1	1	CAGGTATGAAATATAATCTGTCCTTTATTTGGAAGGATGCCGGTATGT
				TTTCTGTTTACCTTGTTCAGATCCTTCAGAGGAATCCCTATATATGGCAGGTATATGAAATGTATTT
E				CTTAAACAATAAACTTGAAAAGTCCAAAATTACTCCTTGATCCATGGACTGCAGAATAAATGTTATT
D4S338 -	:	•	***	GCCAATAAGCAGTAATTTTGAGAGGAATCTTGTTTTCAATGCAGTAG
ESTO		-		CTTTCATGCACGATAGGCTTTCTCTACTAATCACAGAATTTTGAGAAGAGCAAAACAACTTTCAAGG
D4S95	:	-	:	ATAATGGGGCAATCACTTTCTTTCTTTAGAGTCTACCGG

	L			T-V-C-V-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-
ESTD- D7S399	:	:	i	TGAATCTTAATTGCTATCTCTACAAAATGTATAAATCCTGAATCTGACATCTAGCCACCTCCATAGAA AACTGCTAGAGACCCAGTCTCCTACATCATCCTTTCACAAACATTTTCATCCATGGACTCCATACTAG AATATTTGAAGAAACAAACATGACAAACATTTTC
FR DAY				GTGGGGACACCGAGGCTCCAGGCTGGGCGCTTGCACGTGTGGGCTCAAGCAGCTGCTGGGCCTCCACT TCCATGGGTGTGGGGACCTGGGACCTCACTGTCCCTGGGAGAGGAGGGAG
ESTD- DRD1	:	1	 1	TCCCCAGCCCTATCGGTCATATGGACTATGACACTGACGTCTCTCTGGAGAAGATCCAACCATCAC ACAAAACGGTCAGCACCAACCTGAACTCGCAGATGAATCCTGCCACACATGCTCCCAAAGCT AGAGGAGATTGCTCTGGGGGCTCGCTATTAAGAAACTAAGGTAC
ESTD-				TCTGCCTTTGGTGCAGGAGGCTGCCCGGCGAGCCCAGGAGCTGGAGATGGAGATGCAGTCCCAGCACCAGCCCAGCCCAGCCCAGCCCAGCCCAGCTGAGTCTCCCCGACCCGGACCACCACCACCAGCACCACCAGCACCAC
ESTD- DRD3	1 1			AAGACGCAGGATGACCAGGCGCGCAGTAGGAGGGCATAGTAGGCATGGCATGGGCGGGC
ESTD- ETBER2	:			TCTTTCAGGATCCGCATCTGCGCCTGGTTGGGCATCGCTCCGCTAGGTGTCAGCGGCTCCACCAGCTGGGGGTGGTGAGCGGGTCAGCTGGGGCTGGGGCTGGGAGCTTCACCCCGGGCTGGGAGCTTCACCCCGGGCTGGCAGCGGGCTTCACCCCCCCC
ESTD- ETS2	:			ACTCACAGTGCTTTTAAGTGAAAATGGTCGAGAAAGAGCCACCAGGAAGCCGTCCTGGCGCCTGGCAGCACACACA
ESTD-F2		1	;	GATAAGTACACTGAGGCOCCAGGAGGTTATTGCCTAGTAGCCCAACTGTGCATGCACGCTTAACCTCT GCACCAAATGGCCTCCAAGGCCCGTAGGGGAACTGGGGGGATCTAGGGGGATGGGTGAGGAATGGCCC AGCCCAGTOCCGGCGGTGCCTGGGTCCCAACAGAGGAGGCCGTGGAGGAGGAGAGAGA
ESTD-F9				AGATCCTGATGATTTTTTTCCTATTTTTTCTAAATGTTTTACAGTTTGAAGTTTTAGATTTTTTGCCCA TGCTCCATTTTGAGTTAATATTTGTGTAAAGTATGATGTTTAAGTCAAACTTCATTTTTTTT

			CECARACTERITA GETET FREGRET CARACTER SAGE SAGE SAGE SAGE SAGE SAGE SAGE SAGE
			TTCCGGGGTGACTTTCCCGTTCTGTGCTTGCAGAGAAGGCGGGAGAACACAGAGACCACAGAGCCAACTGGCTAA
ESTD-			GIGIAAGGGACCICIGGICGCACCGIGITCIGCIGCCCCTGITCAGCIGICIGICIGCGCAGICGA
-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CICIEICCCEGAAAIICCCAAGAGCI
			GTTTTATGCATGCCAGCTCTAATGACAGGATGGTCAGCCCTGCTGAGGCCACTCCTGGTCACCATGAC
			AACCACAGGCCTCTCAGGAACACAGTAAGCCCTGGCAGGAGAATCCCCCACCCCACACACTGGCTGG
	·		<u> AGCAGGAAATGCCGAGCGCCCTGAGCCCCAGGGAAGCAGGCTAGGATGTGAGAGACACAGTCACC</u>
ESTD-GCK	•••		TGCAGCCTAATTACTCAAAAGCTGTCCCCAGGTCACAG
esro-			GACCCTGAGTACCTCCCTAGTGAGCAAGATGTGCTCCGATCCAGGGTCAAAACCACAGGCATCATTG
GNAT2	:	•	AAACCAAGTITTCCGTCAAAGACTTGAATTTCAGGTAAGTGCATGGTTCCCTAGG
esto-			
GPPK2L		:	AGTOTTCATOTGCGGTGTCCAGGTAGATCCCTTTCACCGCCGAGAACTGCTCGATATC
ESTD-			CTGGGCTCGCCCAGCAGCTGCTGGCACCTGGACGGCGCGCCCAGGCTCACCTCTATAGTGGGGTCG
HRAS :-	;	;	TATTCGTCCACAAAATGCATCTGGATCAGCT
			TTGGAAAGTTCTCCACTGTTAACCCAGTCTATGTTGGCAATGTGGCCTGGGCCCACATTCTGGCCTTG
			AGGGCCTGCAGGACCCCAAGAAGGCCCCAAGCATCCGAGGACAGTTCTACTATATCTCAGATGACA
ESTD			CGCCTCACCAAAGCTATGATAACCTTAATTACACCCTGAGGAAAGAGTTCGGCCTCCGGCTTGATTCC
HSD3B1		•	AGATGGAGCTITCCTTATCCCTGATGTATTGGCTTCCTGCTG
			GGGCTAAAATTTCCGAGCAACTTTGCATAGACTGTTTTATTTGACTTGACAGGATTGCTAGAGATAGG
			CAGGGAGAGGAGATGTGTTACAGTTTGTCAGAGAATAAAAAGGATAACCTGGGGTTTTCTGTGC
			TTTGCTTCTTCACATCCCTGGGGAGTTAATAGCTGCAATTTTTCAAAGAACGGTATACAGGGACAGCA
ESTD-HT2	•	•	AAGCGCAGTCGTGAAGTTTTCAAACAAGACACCCTT
			ACCAACGAGCGGGATACAGACACTCTTAAGTTTTGCCCTAAGGCTCATTCAAATCATTAGGCATTTT
			CTGATAAACTAGGTTCTTGGGTGCCTTCTATCGGCAAGAATGCGTACTTATTTGAATAGTAGAGGTAA
			ACCACACGCCCCAAGAGTCACTGAGACTGGCAGCTTCTGCAGCAGGCGTGAACCCCCGGTAGCCTAAA
ESTD-HT4	•••		TGACAGCCGAAGACGCCCGAAGACATGCAGATGTGC
			AACACACAAAGCCCCAGCGAGAATTGAACTCGCGACCCCTGGTTTACAAGACCAGTGCTCTAACCCCT
			GAGCTATGGAGCCCTCGTCTGCTGTTGGTTTTTCTTCCTTC
			GCATTCCGGCTACCGAATAGGATGTTAGCTTGAGTAAAATTCCAGGATATTCTCCTACAAAATGAAA
ESTD-HT5	1		ACATTITCGTGCTCTGTAAATCCCTCGAAAAGGTTCT
ESTD-			ACCCAGTGGAGCCCGCTCATTGCACGGTCTTGGCAGGAGGTGCCCTGGGAGAAGAAGAAGAAGATGTTC
IGFBP1	-	•	CAGGGCACACATAGCTTAGTGGAGACTC

ESTD- IGHV4-6				TTTACTATTICAATGGATACAGAATTGTGGGAGTCACTATATTCCTATGAACAAAAATTCAGATTT CAGGTGTTAAGTAAGTAATGTTGCCTACATTGTGTGAGTGA
ESTD-IL1A	:		ļ	CAAAGTAAGCACCCAATAAATGTTAGCTATTACTATTATTATTATTTTTTTT
ESTD-IL1B				CCACTTACAGATGGATAAATGGGTACAATGAAGGGCCAATAGCCCTCCCT
ESTD- KRT10			••	CCAAAGITAAATAGIATTGGAGITATCTGAGAAATTTTCCATGTCAGTGTTACCTTTTTGGCAATATT AAAGGAAGAAAATGCATTTTAAAGTAACTGCTAAGGTTTTTTCCATTAAACCACTATTACTTCTAAG AGAACTGTACATGACAAATATTGCCATTACATGAGATCAACTATGTAGCTGCTTTTTAAATAGTCTC TGCCCAGATACATCCCCTATATAAGTTATAAACCAGTATTGATA
ESTD- KRT8			;	ACCCTCACCCTCCCTTAGCCCGTGGGAAGCAGGAAATCTCTCTC
ESTD- LF79		!	ŀ	GGGTGATTITGAGGCTCAGTTAATATTTCAAAATTGTAACCGTAGCAAAACTGCATTGGTATTTAGAAAAAAAA
ESTD- LMP2		•		TACACACTITCCTTACCCATTCACTGAAAACGACTCGCAAACTGGAGCCTTGTAGGAATGGAGTTGA CCTTCCCCAAAAGCCACTATGATAAGCTATTTGGTG
ESTD-LPL			!	TGTCAGTGTCCCCTAGGGGCACCTCACCACTCCCAGCTTCTCAGCTCTGGCCTGTCCTGCCTG
ESTD-MCC			•	TTGTCAGGAGTGTGCTGCTGCCTCCCCAGCTCTGTCCCTAGCCGAACTTCAGGACAACGTGCAG
ESTD- METH	:	•••	•	CATCCATGTAGGAGGCCTTAGTCAAGTGAATGCTGAGGAAGCAGTAAAACAGCATGCAT
ESTD-NF1		•		ATTATCCAGATGAATTTACAAAACTATACCAGATCCCACAGACTGATATGGCTGGT

ESTD ESTD- NFIGB1 NPPA			AACATGGACTTGTATTTGTACAAAAAAAAGTTTTATTTTTCTAAAAAAAA
: :	-		AAATTTAAAGGGTGTACTTATATCCACACTGCACACTGCCTAGCCCAAAACGTCTTATTGTGGTAGG
;			ATCAGCCCTCATTTTGTTGCTTTTGTGAACTTTTTGTAGGGGACGAGAAAGATCATTGAAATTCTGAG AAAACTTCTTTTAAACCTCACCTTGTGGGGTTTTTGGAGAAGGTTATCA
;			TGTCCCTAGGCCCAGCCTGCTTGTCCTCCCTGGCTGTTATCTTCAGTACTGCAAAGAGAACACAGAC
		•••	AT
ESTD			GGAGGCAGGAGGGGGGGGGTCTGTCTGCTCCAGGTCCCACAGACCAGAGAAGCGGCCTCAGTG
NPAMP	•	•	TATCCCCACCCCAATGTGGGCGCTGGGAGATGAAGAGGAGTTGATGCAGGT
			GTGTTTTCTTAATCTTTTCCAGGAACACAGTGACCATATTTCTTTTTTTGCAGGCATATAGAATTTGGT
	-		GGGTTTTCTTTTATGTAGGGTGATATTGGATACTTTTTGTTGTGATTATATATTAGCAATTTGAGGG
esm-			ACAAACCAGATAGGCAGAAATGGGCTTGAATAGTTAGATGCTTATTTAACCTTGGCAATAGCATTGC
;			ATTCCCTGTGGTTTTTAATAAAAAT
			GTGACCTTCTCACTTTAAAAAACTTTACCGGAGAAGAAATTAAATATATGCTATGGCTATCAGCAGA
ESTD-OTC	:	•	TCTGAAATTTAGGATAAAACAGAAAGGAGGTATGTAACA
			GCCACCACCACCCACCCACCACCACCTCCAACCTCAGCCAGACAAGGTTGTTGACACAAGAGAGACCC
			TCAGGGGCACAGAGAGAGTCTGGACACGTGGGGGAGTCAGCCGTGTATCATCGGAGGCGGCGGCCGCAC
			ATGGCAGGGATGAGGGAAAGACCAAGAGTCCTCTGTTGGGCCCAAGTCCTAGACAGAC
ESTD-PAI1 -		•	ACAATCACGTGGCTGCT
			CTCTTCAGGAACCACCAGTCTTCTTACCAAACACGACTTATTGCTGTCCGAGAGGTACAACCCGTAGA
			ACTICCTAACTGTAATTTAGTTAAAGGAATCGAAACTGGCTCTGAAGACATGGAGATACTGCCT
			AATCGACTGGCTTTCATTAGCTCTGTGAGTGTTTTCTTTC
ESTD-PAR	1 0	-	GACTGGCAGTTTAAGCTTTCAGGCTTTCTGTATACCCATGCCC
			CCTTCTCATGOCCAGATGGAAATTCCAGTCCCTTCAGGATCTGCCTAACCTGTGACAGTCTAAAGAGT
සාර			CTGAGCCGTGGCTGGGAAGGGCAGGACTAATCCAAATCTCTACCCGCAGCTTGCTCGCATACAGACG
PBDA	•	•	GACAGTGTGGTGCCAACATTGAAAGCCTCGTACC
			GGGGAGTAAAACTTGGATTGGGAGATTTCATTTTCTACAGTGTTCTGGTTGGT
			GCCAGTGGAGACTGGAACACAACCATAGCCTATTTCGTAGCCATATTAATTGGTTTGTGCCTTACATT
			ATTACTCCTTGCCATTTTCAAGAAAGCATTGCCAGCTCTTCCAATCTCCATCACCTTTGGGCTTGTTTTTT
ESTD-PS-1		•	CTACTITIGCCACAGATTATCTTGTA
			ATGAAACATGGTTCTTTAATTTTATGATATGTTTGTTATAGCTATCTTAAAAGGGCTTCTTTTTTA
ESTD			ATGCAGAAAGAGGGGAAAAAGAGCGAGCTGTGGTGGACAAGGTGTTTTTCTCAAGGCTCATACAGA
PXMP1	•	ŀ	TTCTGAAAATCATGGTCCCTAGAACATTTTGTAAAGAGGTAAGTCTTATGAAATTATAATCTT
ESTD-			ACCTACAGACGTCGCTGGATGGTGTGTCCAACCCCGAGGAATCTGAGAGCGAGAGCAGGGGCTGGCT
Per/RDS			CTGGAGAAGAGCGTGCCGGAAGCCTGGAAGGCCT

	-			
				CCCGAGGAATCTGAGAGCGAGAGCGAGGGCTGGCTGCTGGAGAAGAGCGTGCCGGAGAGAGA
ESTD-RDS				CCAGGOCCAGAGGCTGGCTGAGGCCCTGGGGCCCTCCCCTC
				CTTCGTGACGGGAGGTCACGTCCTCCGCCTCTTTCATGGACATATGGATGAGTGACATTTCCC
-0133				TOCCITCIBGAGGCTGGAGCCACACTGAGATCAGCTGGAGTGGGAGCCACCTGCGCTGGGGGCCAGCCA
FYEI	-	*	•	CCGAGTCCGGCATGTCACTACCGGGCAGTACCTAGCGCTCACCGAGG
		-		TGAAACACCCTGTGGTCCGGAGCCAGGTTGTGTTTCTCCTGGGAGCCTGAGGAGTTTGTTGTCTGTGTG
ESTD		-		ATTTACCCACCTGGCCATGTCCCTGGCCTGTTGTGCACCCTCTGTGAAGACCCCAACCCCTGCCCTCC
SPTB	-			CCCACCCAAGCCAGGTTTCCTAGCAAGGGCAGGAC
				TICACTITIGIGGATIGITICITITIGCTGTGCAGCACCTITICAACATGATGTGATCCCATTTGTCCAAG
				TITIGCTITIGGCTGCCTGTGCGTTGTGGGGATATITIGAAAGAGATCTTTGCCAGTCCAATGTCCTAGAGAG
ESTD- SSA1	<u> </u>			TTTTCCCAATGTTTTCTTGTAATAGTTTCATAGTTTGAGGCCTTAGATTTAAGTCTTTAATCCATTTTG
				AAATGGTCAGGACCCTGATCCACAAGAAGTGGTACCATTTCATCAGGGCCATCAGTTCATTCA
				CCATGACTGGGATGCTAAGTCAGCAACTGAGTTCATTCAT
ESTD.TAT	<u> </u>			ATTTCCTCTCACCTAGAACGTTTGTTTACAACTTTTCTTCCCAGTATGGATGG
200				
ESTD.				IGCGGCC ICC CCGGCAGGGGAGAC CC AC IGGC G IGA I CCAAGAGAAGAG
品品	<u>:</u>	1 1 2 3 3	1	CACTGGATTGGCCCAAACAAGTCTGAGTGCCAGCCAGGACTCAACGGTCCCCTGTAGATGGG
				TTCCTGCATCCTGTCTGGAAGTTAGAAGGAAACAGACCACAGACCTGGTCCCCCAAAAGAAATGGAGG
		·		CAATAGGTTTTGAGGGCCATGAGGACGGGGTTCAGCCTCCAGGGTCCTACACACAAATCAGTCAG
5310				GOCCAGAAGACCCCCTCAGAATCGGAGCAGGGAGGATGGGGGAGTGTGAGGGGGTATCCTTGATGCTT
TNFA	-	•	:	GTGTGCCCCAACTTTCCAAATCCCCGCCCCGCGATGG
				TAGTGAAGTTTTCATCTCCTGTCAGCTTCTGGATTTCTTGTTCCCACCGCAACAAGAAGAGTCTATGC
				CAAGGCAGAAAAGCTGGTGCTTCATGGGCAAAATCAATGTCTCTCCAGATTTCAGATCCCCCAAGCA
				GTGCATCCATTGACACATAATGCATCCAGACAAAGAGGTCATAAATATTGATGTCGTTAAACAT
ESTD-TYR	<u>-</u>		•	GGGTGTTGATCCATTTTCATTTGGCCATAGGTCCCTATGGGGGATGACA

			A STATA A CATOLIA
			AGIAGIGGAIGAAGCIAACCAGCCICICCICACIGAICAGIAICAAIGCIAIGCIAAAGAAAAAAAA
			AACCACCTGGTTGAATATAATAGATTGAGTTATTAACTGTATTITCTTTCACTTTATTACCTTCTTTCTT
		•	יייייייייייייייייייייייייייייייייייייי
			TTCCCAAGGCCTCAATACAAGTCTTTTTCTTGGGATTACAACATCAGGGTCTGTTGTTTTCTATTACA
			GGACACATGGATGCTGGAATCACCCAGAGCCCCAAGACACAAGGTCACAGAGACAGGAACACACTG
ESTD-			ACTCTGAGATGTCACCAGACTGAGAACCACCGTTATATGTACTGGTATCGACAAGACCCGGGGCATG
VB12	•		GGCTGAGGCTGATTACTCATAT
			AGGTAGGAAAAGCAAAGAGTTGATTAGTGAAGGAGAGAATGGACCTACCT
ESTD-WF	:	9 8 9	TCCCCTAGAGTCTG
			AAGACCTACGTGAATGTTCACATGTGCTTAAAGCCTCCCTTCCTCTTACTCTCTGCCTGC
			CGACGTGTGCCTGGAGTAGCCCCGACTCTTGTACGGTCGGCATCTGAGACCAGTGAGAAACGCCCTT
ESTD-WT1			CATGTGTGCTTACCCAGGCTGCAA
	-		TTGGGAAGTTAGAGCCTATATTAAATTACGGAATTACTAAGGCAGGACACAGAGGCTTAATTGAAAA
ESTD-			TATCCCAAAGTTGAAATGTCTCAGTTCGCTGTGGGGTTAGATGCAGGATTTATATGATCCGTTAACC
s14544			TCT
			AGCACCACCTCTCACGTCAAGCCTCAGCACCAGATGCTGTTCTATAAGGATGACGTGCTGTTTACAA
			CATCTCCTCCATGAAGAGCACAGAGAGTTATTTTATTCCTGAAGTCCGGATCTATGACTCAGGGACAT
EST71770			ATAAATGTACTGTGATTGTGAACAACAAGAGAAAACCACTGCAGAGTACCAGCTGTTGGTGGAAGG
9	1		AGTGCCCAGTCCCAGGGTGACACTGGACAAGAGGGCCATCCAAGG
EST52418	, - - -		CAAATTACAGGGTCAACTGCTATGATGTGTTTGGAGCCCAGTCACCTTTGGTGGCTCAAGATGTCGT
9	:	:	GGGAGTGGCCGGGAGTTGGGCGAGTACGGGCTGCAGGCATACACTAAAGTGAAAACTGTGAGTGTGG
			CCCACTCTATTTGCCCAGCCCAGGGACAGAGCTGATCCTTGAACTCTTAAGTTCCACATTGCCAGGA
			CCAGTGAGCAGCAACAGGGCCAGGGCTGGCTTATCAGCCTCCCAGGCCCAGACCCTGGCTGCAGACAT
EST13586			AAATAGGCCCTGCAAGAGCTGGCTGCTTAGAGACTGCGAGAAGGAGGTGCGTGC
3	•	1	GTCACTC
			AGGCAGAAACTGGGGCCCCATGCGGGGGGGCGTGGAAGGCCACTTGAGCTTCCTGGAGAAGGACCTGA
			GGGACAAGGTCAACTCCTTCTTCAGCACCTTCAAGGAGAAAAGAGAGAG
EST51976			CCCTGAGCTGGAGCAACAGCAGGAACAGCAGCAGGAGCAGCAGGAGCAGGAGG
7	•••	•	CCTTTGGAGAGCTGAGCTGCCCTGGTGC

			CCACTITIGGTAGTGCCAGTGAGTCATCCACAATGATTTCTCCAGTGCTCATCTTGTTCTCGAGTTTT
			CTCTGCCATGTTGCTATTGCAGGACGGACCTGTCCCAAGCCAGATGATTTACCATTTTCCACAGTGGT
EST11458 6	:		CCCATTAAAAACATTCTATGAGCCAGGAGAGAGATTACGTATTCCTGCAAGCCGGGCTATGTGTCC CGAGGAGGGATGAGAAAGTTTATCTGCCCTCTCACAGGACTGTGGCC
6			CGGTCTTCCTTCCAGGTATTGTTGCAGAAGGCCGAGATGACCTCTATGTCTCAGATGCATTCCATAAGGCAGAAGGAAG
E		i	ACAGOCT
			ACCTGGTGTTGCTGTGTGTGTGAACCTGGTCCTCTTGGCATTGCCGGCCCTCCTGGGGCCCGTGG
EST62448			TOCTOCTIGETGCTGTGGGTAGTOCTGGAGTCAACGGTGCTCCTAGTGAAGCTGGTCGTGATGGCAACGTGGTCAACCTGG CTGGGAACGATGGTCCCCCAGGTCGCCAATGGTCAACCCGGACACAAGGGAGAGAGGCGCGGTTACCCTGG
:	•	:	CAATAT
			AGTGACTTCCAAGGAAATGGCTACCCAACTTGCCTTCATGCGCCTGCTGGCCAACTATGCCTCTCAGA
EST36027			ACATCACCTACCACTGCAAGAACAGCATTGCATAGATGATGAGGAGACTGGAAACCTGGAAAAAGG
		••	GTTCTTGTAGATGCTCTCTAAAAGACAAATGAATGGGGAAAGACAA
		-	CCCCCAGTTGACAGCCACTGCTCTAGACTAAGTTTCTTGCTTCCAAATAGAGCCTTACCAAAGTGTAT
			TACATAAAGAAGTCAAGGTGGTTTTACTCCTCATGACCAAATATTCTTTCCCTCCTTAGGATGAGGTGA
EST12274			TAGTAAATGACCGATGGGGGTCAGAACTGTTCCTGTCACCATGGAGGATACTATAACTGTGAAGATAA
:		•	ATTCAAGCCACAGAGCTTGCCAGATC
			ATECTAAGGGGATCGGACATGAAAGGACCCTGTGAGCCGATTGTCCTATCTCCAGCGGCCCTGTCATC
			CAGCTCACTCATCAATGGGGCCAGTCAGGCCCCAGGCACTGGGCTCCGGAGGACTCACCACTGCCCCCT
EST76807		:	GCTGCCATGTGGACTGGTGCAAGTTGAGGACTTCTTG
EST44438			GCAGCCAGGAGCCGCTGCACCATGCCCCCATAGATGCGGACCTCAAGGCTCGACTTCAAGGACGTCCT
7	:	:	GCTCCGACCTAAGCGGAGCAGCCTCAAGAGCCGAGCTGGG
			TGCAAAACACACAAAATCTTCTCCAGATGCCCTATGGCTGTGGAGAGCAGAATATGGTCCTCTTTGCT
			CCTAACATCTATGTACTGGATTATCTAAATGAAACACAGCAGCTTACTCCAGAGATCAAGTCCAAGG
EST12839			CCATTGGCTATCTCAACACTGGTGAGTGATTACTTGAGTAAGGGAAACTTGAATGTTATTCAACTGG
;			ATTTCCAGTAGGTTTCAGTTACTTATGATATTATGATACTTAGCTTAG
	-		CTTCTGCCTAATTTGAATGATATTGTTGCTGTGGGACCTGAGCACTTTTATGGCACAAATGATCACTA
EST54419			TTTTCTTGACCCCTACTTACAATCCTGGGAGATGTATTTGGGTTTAGCGTGGTCGTATGTTGTCTACTA
:		:	TAGTCCAAGTGAA

EST10398			TGCCTGGGGTGGCAAGGCTGCAAACAAGGAGGCAACCCAGGAGGCTTTTATGAAGCGGGCCATGGTAAGATGCTGCCACCCCTTGATTGA
:	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;		CATTGTTTCTTCGGGCCAAGAAGGTATCTACCAATAGTGTCTATTAGGCATTTG
EST36751	*	ŧ	CCAAGTCGTTCAATTTTAGCTTTGCAGGTTTTAACTCGATTACTTTTTTTT
			CACGTGGAAAGGAGCTATTTTTGGAGGCTTTAAGAGTAAAGAATCTGTCCCCAAACTTGTGGCTGAC
			AAGGATTTGACCTGCTTCGCAAAGAGTATCCGTACCGTCCTGACGTTTTGAAACAATACAGAT
EST40562		•	GCCTTCCCTTGTAGCAGTTTTCAGCCTCCTCTACCCTA
	-		GCTCTCTATACCCCTGTGGTCCTCCCACGCTCTCTGGACTTCACAGAACTGGATGTTGCTGCTGAGAA GATTGACAGGTTCATGACAGGAGCCAGTGTGGAAGACTGGCTGCTGCCTGACGGAGGAGCCAGTGTGG
EST18288			ACAGCACCCTGGCTTTCAACACCTACGTCCACTTCCAAGGTAAGGCAAACCTCTCTGCTGGCTCGGC
3		;	CCTAGGACTTAGTATCC
			TTCCCGCCAGCCCCCATCCTTGGCACCCTGGTCCCCCTCAGGGGCCACCCCGCGCGCACTCACCGCTCT
			CGCTCTCGGTAACATCCGGCCGCCGCCGTCCTTGAGCACATAGCCTGGACCGTTTCCGTATAGGAGG
EST70523	1	i	ACCATGTAGGCCTTCCTGTCCCGGGCCTTGCCAGGGCCAGCCTGCAGAGAGAG
			CAGTGTATCTGGAAAGCCTACAGGACACCAAAATAACCTTAATCATCAATTGGTTACAGGAGGCTTT
			AAGTTCAGCATCTTTGGCTCACATGAAGGCCAAATTCCGAGAGACCCTAGAAGATACACGAGACCGA
EST58707		-1	ATGTATCAAATGGACATTCAGCAGGAACTTCAACGATACCTGTCTCTGGTAGGCCAGGTTTATAGCA
7			CACTTGTCACCTACATTTCTGATTGGTGGACTCTTGCTGCTAAGAACCTT
			AGACCATGAAGGAGTTGAAGGCCTACAAATCGGAACTGGAGGAACAACTGACCCGGGTGGCGGAGG
			AGACGOGGCCACGGCTGTCCAAGGAAGCTGCCAGGCGCGCAGGCCCAGCTGGGCGCGCGC
ES1/416/ 6	; ;	ŀ	TGGGGTGGGCTCGCCTCGCACTGCGCAAGCTGCTTAAGCGCTCCTC
			CGCCTGGTGCAGTACCGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGGAGCTGCGGGTGCG
			CCTCGCCTCCCACCTGCGCAAGCTGCGTAAGCGGCTCCTCCGCGATGCCGATGACCTGCAGAAGCGCC
EST43211 8	1	1	TGGCAGTGTACCAGGACCGGGGCGCGCGCGCGCGCGCGCG
			TGTAGCCAAAGTCACCTGCATCATTTGGCTGCTGGCAGGCTTGGCCAGTTTGCCAGCTATAATCC
			ATCGAAATGTATTTTCATTGAGAACACCAATATTACAGTTTGTGCTTTCCATTATGAGTCCCAAAAT
EST36770			TCAACCCTCCCGATAGGGCTGGGCCTGACCAAAAATATACTGGGTTTCCTGTTTCCTTTTCTGATCAT
4	-		TCTTACAAGTTATACTCTTATTTGGAAGGCCCTAAAGAAGGCTTATG

		-	TAATGTAAGCTCATCCACCAAGAAGCCTGCACCATGTTTTGAGGTTGAGTGACATGTTCGAAACCTGT CCATAAAGTAATTTTGTGAAAGAAGAGGAGCAAGAACATTCCTCTGCAGCAGCACTTCACTACCAAATGA
EST26021			GCATTAGCTACTTTTCAGAATTGAAGGAGAAATGCATTATGTGGACTGAACCGACTTTTCTAAAGC TCTGAACAAAAGCTTTTCTTTCCTTTTGCAACAAGACAAAGCAAAGCC
EST51212			ATCCTGAGCTCGCCAATAAGCTTCTTGGTTCTACTTCTTCTCCACAAGCCCCAATTTCACTTTCTCAGGGAAATCCCAAGCTTAGGAGCCCTGGAGCCTTTGTGCTCCCACTCAATACAAAAAGGCCCTCTCT
			GITOGGAATOCTOCTGAAAAGTGGCCGGGTTTAATCTGATGACGCTGCGGCTGTGGTCGAGCT
			GAGGTGAGGGGCTTGAGGAGTGGGGTTTAGGGACGCGGGTCTCTGCGTGCATCCTAAGCTCT
EST20118			GAGAGCAAACCTCCCTTGAAGCTGGGAGTGGGGTTTAGGGACGCGGGTCTCTGCGTGCATCCTAAGCT
EST53018 6	:		ACAATCCAGGTCACACATTCCAGAAGAGGGGGGGGGGTGGTCAGTGAGCCTGGGTAGGTCCAGTAATCCA AGGATTCAGGAAGGAGGCCACGAGGATCGAAGTTAGTGAAGTC
			CTTCCTATGGGATTTGACTTTATTTTCTCCATTGTCTTACCTTTTACAGGTGTTAATATATAGTGAAAAG
EST68787			GAAGCTTGCAGCTCATGACAATTTGAAGCTGACAATTACACAAGAAAGGAAATAAAT
5	1	•	CAGACGGAACTCAGGGTAAGAAT
EST34088			GTGGGGGCAACAGTGGGAGAGAGAAAGGCCAGGGTATAAAAGGGGGCCCACAAGAAGAGCGGCTCAAGG
2		-00	AICCCAAGGCCCAACICCCCGAACCACICAGGGICCIGIGGACAGCICACCIAGCIGCAAIGGCIACA
			CTGAGAAACAATTGGCAAAATAAAGGAATTTGGCACTCCCCCCCC
ES137382 5	1	:	CTTTGAGTCAAATTGGCCTGGACTTGAGTCCCTGAACCAGCAAAGAGAAAGAA
			TOCAGGGTGGCTGGACCCCAGGCCCCAGCTCTGCAGCAGGGAGGACGTGGCTGGGCTCGTGAAGCATG
			TGGGGGTGAGCCCCAAGGCAGGCAGGCACCTGGCCTTCAGCCTCAGCCTCAGCCTGCCT
EST74082	3 0 0		CCAGATCACTGTOCTTCTGCCATTGTGGAATGCGCCTCTGCTGCTGCTGCTGCTGCTGCTGCCTCTTGGGAACCTGTGCG
*****			GCCCTCCTCTTCCAATTCTGTCCCTATAGTTTTCCTCTATTAAGTGAACTACATGCATTCTTTAGT
			GGATAGATGCACACAAACACACAAGCCATTATGGGGAAGGATCCACGTGTGTGGGCCATATTGTAACA
EST45311 0	1		CATTITICIGCAAATCACCICTITICATITAACAGCCCTIATICAATGGCCTTTTTCTTTTTCAGTAGTA CATACACATCIGTGTCATTIGTTGAAT

		TGCCCCATCACGCGGCCGAGACATGGCTTGCCACAGCTCTTGAGGATGTCACCAATTAACCAGAAAT
		ACAGCTCCACTCTGACTGGCACAGTCTTTGCATGGCCGGGGGGGG
0.0000	•	GITAGGIGOGIGITICCIGIGCAAGICAGGACATCAGICTGATTAAA
3 ::-:::		ATGCAGGATGAAGGTGGACAGGGAGGGGCCAACCTGTCATCCCAGGGCCTGCAGATGTCGCTG GACTATGGGTTTGTGACCCCACTGACTCAAGATGTCAAGA
		ATACTAGTACAAGTGGTAATTTTTGTACATTACACTAAATTATTAGCATTAGCATTTAGCATTAG
		TITITICCTGCTCCATGCAGACTGTTAGCTTTTACCTTAAATGCTTATTTAAAATGACAGAGAGAG
EST62782		TTTTTTTTCCTCGAAGTGCCAGTATTCCCAGAGTTTTGGTTTTTGAACTAGCAATGCCTGTGAAAAA
	:	GAAACIGAATACCTAAGATTTCTGTCTTGGGGTTTTTGGTGCATGCA
00		GAGATCGGTGTGTGAGTTATTAGGCATGGTTACCTGTGATTCTCCCAATCTTGTGCGTTCCACCGATG
		GAACTGCCGGCAAATCCTGACACGTGTGCACCCAGGCTGTACCCAATTAGGTGAACATGGCTTCGAG
		AGAGTTGAACAGATTCCTGGAAGACAGCAGCGGGATGGGGGCAGGAGAGAGCTGCCTGGATGAA
		GGAAAGAGATTTAAGAAGCTTGATTTGGACAATTCTGGTTCTTTGAGTGTGGAAGAGTTCATGTCTT
ES168308		GCCTGAGTTACAACAGAATCCTTTAGTACAGCGAGTAATAGATATATTCGACACAGATGGGAATGGA
	•	GAAGTAGACTITAAAGGTAAGAAAGTAGTTATTTTA
11 C C C C C C C C C C C C C C C C C C		GGAATATTAAAAATATTTAAAATACCTCCATTTTGCTTATCCTTTTAGTGAAGATGATACCTGCAA
		AAGACATGGCTAAAGTTATGATTGTCATGTTGGCAATTTGTTTTCTTACAAAATCGGATGGGAAATCT
	•	GTTAAGTAAGTACTGTTTTGCCTTGGAATTGGATTTTTAATGTTGACTTTATCAT
ES152908		ATCACAGGTCTCTGGTCTCTGGCCATCATTTCCTGGGAGAGATGGATG
;	ŀ	CAATGTGAGATTTGATG
EST19590	·	AGGAGAAGCTGAGGAGGAGAGAGAGACAAGAATGACATTGATGAGTGAAGATGTCGGCTCAGGAT
		TGAAGCTICTGCCAGCTTGCATTGTTTCTAGGAGAACCCCCCTCATTATTATTATTATTATTATTATTATTATT
EST76136	•	TAGGICIT
		CTCTGGATGGGTTCACAGGTGGCAGGCCAGTCCAGTCCTGTAGTCATATATAT
COTEGGO		CAAGTTGCTCCTCACTGGAGACAAGGACAGCCACATGGCGGGGATGGCCGGGGGAGTTCTGGT
		TGCGGCCACGGCTGTGGCGTTGTGAACGGTAGCCTTTGCGGTTGCGATGCCTAAACCTTTGTTTCT
	:	TGGCCAAGGAGGGGGGGGGCTGCCATGCCTGAGATGTAGATGCGGCC
		Legend: 1=Marker 2=PM Position 3=Reference Allele 4=Altered Allele 5=SNP Forward Primer
		6=SNP Reverse Primer 7=Sequence

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EQUIVALENTS

While this invention has been particularly shown and described with references to preferred embodiments thereof, it will be understood by those skilled in the art that various changes in form and details may be made therein without departing from the spirit and scope of the invention as defined by the appended claims. Those skilled in the art will recognize or be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments of the invention described specifically herein. Such equivalents are intended to be encompassed in the scope of the claims.

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CLAIMS

WE CLAIM:

- A nucleic acid segment shown in column 7 of the Table,
 or a portion thereof which includes a polymorphic site,
 or the complement of the segment or portion thereof.
 - 2. The nucleic acid segment of claim 1 that is DNA.
 - The nucleic acid segment of claim 1 that is RNA.
 - 4. The segment of claim 1 that is less than 100 bases.
 - 5. The segment of claim 1 that is less than 50 bases.
- 10 6. The segment of claim 1 that is less than 20 bases.
 - 7. The segment of claim 1, wherein the polymorphic site is biallelic.
- 8. The segment of claim 1, wherein the polymorphic form occupying the polymorphic site is the reference base for the fragment listed in the Table, column 3.
 - 9. The segment of claim 1, wherein the polymorphic form occupying the polymorphic site is an alternative form for the fragment listed in the Table, column 4.
- 10. An allele-specific oligonucleotide that hybridizes to a segment of a fragment shown in the Table, column 7 or its complement.
 - 11. The allele-specific oligonucleotide of claim 10 that is a probe.

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- 12. The allele-specific oligonucleotide of claim 10, wherein a central position of the probe aligns with the polymorphic site of the fragment.
- 13. The allele-specific oligonucleotide of claim 10 that isa primer.
 - 14. The allele-specific oligonucleotide of claim 13, wherein the 3' end of the primer aligns with the polymorphic site of the fragment.
- 15. The allele-specific oligonucleotide of Claim 10, which is selected from the group consisting of the nucleotide sequences of the Table, column 5.
 - 16. The allele-specific oligonucleotide of Claim 10, which is selected from the group consisting of the nucleotide sequences of the Table, column 6.
- 15 17. An isolated nucleic acid comprising a sequence of the Table, column 7 or the complement thereof, wherein the polymorphic site within the sequence or complement is occupied by a base other than the reference base shown in the Table, column 3.
- 20 18. A method of analyzing a nucleic acid, comprising obtaining the nucleic acid from an individual; and determining a base occupying any one of the polymorphic sites shown in the Table.
- 19. The method of claim 18, wherein the determining
 comprises determining a set of bases occupying a set of
 the polymorphic sites shown in the Table.

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20. The method of claim 18, wherein the nucleic acid is obtained from a plurality of individuals, and a base occupying one of the polymorphic positions is determined in each of the individuals, and the method further comprising testing each individual for the presence of a disease phenotype, and correlating the presence of the disease phenotype with the base.